



GLOBAL JOURNAL OF SCIENCE FRONTIER RESEARCH
Volume 11 Issue 7 Version 1.0 October 2011
Type: Double Blind Peer Reviewed International Research Journal
Publisher: Global Journals Inc. (USA)
Online ISSN : 2249-4626 & Print ISSN:0975-5896

Creation of a Summation Formula Marshaled With Contiguous Relation and Hypergeometric Function

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Abstract - The main object of the present paper is to establish a summation formula tangled with Hypergeometric function and recurrence relation .

Keywords : *Contiguous relation, Gauss second summation theorem ,Re-currence relation .*

GJSFR Classification : 33C05 , 33C20 , 33C45 , 33C60 , 33C70



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I. INTRODUCTION

Generalized Gaussian Hypergeometric function of one variable is defined by

$${}_A F_B \left[\begin{matrix} a_1, a_2, \dots, a_A ; \\ b_1, b_2, \dots, b_B ; \end{matrix} z \right] = \sum_{k=0}^{\infty} \frac{(a_1)_k (a_2)_k \dots (a_A)_k z^k}{(b_1)_k (b_2)_k \dots (b_B)_k k!}$$

or

$${}_A F_B \left[\begin{matrix} (a_A) ; \\ (b_B) ; \end{matrix} z \right] \equiv {}_A F_B \left[\begin{matrix} (a_j)_{j=1}^A ; \\ (b_j)_{j=1}^B ; \end{matrix} z \right] = \sum_{k=0}^{\infty} \frac{((a_A))_k z^k}{((b_B))_k k!} \quad (1)$$

where the parameters $b_1, b_2, \dots, b_B$ are neither zero nor negative integers and A, B are non-negative integers and $|z| = 1$.

Contiguous Relation is defined by

[Andrews p.363(9.16), E. D. p.51(10), H.T. F. I p.103(32)]

$$(a-b) {}_2F_1 \left[\begin{matrix} a, b ; \\ c ; \end{matrix} z \right] = a {}_2F_1 \left[\begin{matrix} a+1, b ; \\ c ; \end{matrix} z \right] - b {}_2F_1 \left[\begin{matrix} a, b+1 ; \\ c ; \end{matrix} z \right] \quad (2)$$

Gauss second summation theorem is defined by [Prud., 491(7.3.7.5)]

$${}_2F_1 \left[\begin{matrix} a, b ; \\ \frac{a+b+1}{2} ; \end{matrix} \frac{1}{2} \right] = \frac{\Gamma(\frac{a+b+1}{2}) \Gamma(\frac{1}{2})}{\Gamma(\frac{a+1}{2}) \Gamma(\frac{b+1}{2})} \quad (3)$$

$$= \frac{2^{(b-1)} \Gamma(\frac{b}{2}) \Gamma(\frac{a+b+1}{2})}{\Gamma(b) \Gamma(\frac{a+1}{2})} \quad (4)$$

In a monograph of Prudnikov et al., a summation theorem is given in the form [Prud., p.491(7.3.7.3)]

$${}_2F_1 \left[\begin{matrix} a, b ; \\ \frac{a+b-1}{2} ; \end{matrix} \frac{1}{2} \right] = \sqrt{\pi} \left[\frac{\Gamma(\frac{a+b+1}{2})}{\Gamma(\frac{a+1}{2}) \Gamma(\frac{b+1}{2})} + \frac{2 \Gamma(\frac{a+b-1}{2})}{\Gamma(a) \Gamma(b)} \right] \quad (5)$$

Now using Legendre's duplication formula and Recurrence relation for Gamma function, the above theorem can be written in the form

$${}_2F_1 \left[\begin{matrix} a, b ; \\ \frac{a+b-1}{2} ; \end{matrix} \frac{1}{2} \right] = \frac{2^{(b-1)} \Gamma(\frac{a+b-1}{2})}{\Gamma(b)} \left[\frac{\Gamma(\frac{b}{2})}{\Gamma(\frac{a-1}{2})} + \frac{2^{(a-b+1)} \Gamma(\frac{a}{2}) \Gamma(\frac{a+1}{2})}{\{\Gamma(a)\}^2} + \frac{\Gamma(\frac{b+2}{2})}{\Gamma(\frac{a+1}{2})} \right] \quad (6)$$

Recurrence relation is defined by

$$\Gamma(\zeta + 1) = \zeta \Gamma(\zeta) \quad (7)$$

II. MAIN SUMMATION FORMULA

$$\begin{aligned} {}_2F_1 \left[\begin{matrix} a, & b &; & \frac{1}{2} \\ \frac{a+b+42}{2} & & & \frac{1}{2} \end{matrix} \right] &= \frac{2^b \Gamma(\frac{a+b+42}{2})}{(a-b) \Gamma(b)} \times \\ &\times \left[\frac{\Gamma(\frac{b}{2})}{\Gamma(\frac{a}{2})} \left\{ \frac{1048576(-63777066403145711616000a + 113132213847363000729600a^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \right. \\ &+ \frac{1048576(-87636014575275642716160a^3 + 39984567139728869031936a^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-12169536711728431104000a^5 + 2644864803309469040640a^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-428121320345704202240a^7 + 53058097110810198016a^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-5127902731197542400a^9 + 391088184834247680a^{10} - 23695691648977920a^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(1143098049889536a^{12} - 43808321523200a^{13} + 1324347752320a^{14})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-31166140800a^{15} + 558671136a^{16} - 7364400a^{17} + 67260a^{18} - 380a^{19} + a^{20})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(63777066403145711616000b + 317946690712728974131200ab)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-121980950631985226711040a^2b + 306857692785107647070208a^3b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-65512554685757993779200a^4b + 38358521354056260648960a^5b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\ &+ \frac{1048576(-4809977661468731637760a^6b + 1271523787720818425856a^7b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \end{aligned}$$



$$\begin{aligned}
 & + \frac{1048576(-100107830204285030400a^8b + 14568453350802524160a^9b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-741322929119984640a^{10}b + 64682699862303744a^{11}b - 2123185262348800a^{12}b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(114691143878400a^{13}b - 2340026782080a^{14}b + 77608806912a^{15}b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-891867600a^{16}b + 17102280a^{17}b - 83980a^{18}b + 780a^{19}b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(113132213847363000729600b^2 + 121980950631985226711040ab^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(560572553449426145771520a^2b^2 - 57692905687837782835200a^3b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(154417620818106034421760a^4b^2 - 14394240797460086784000a^5b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(9006637442780370698240a^6b^2 - 587532888242493440000a^7b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(164565961567558753280a^8b^2 - 7291699646996976640a^9b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(1112051811883584000a^{10}b^2 - 32714471153894400a^{11}b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2955037370962560a^{12}b^2 - 55075110778240a^{13}b^2 + 3035668729600a^{14}b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-32315504000a^{15}b^2 + 1072004700a^{16}b^2 - 4935060a^{17}b^2 + 91390a^{18}b^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(87636014575275642716160b^3 + 306857692785107647070208ab^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(57692905687837782835200a^2b^3 + 239777121731713585643520a^3b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-10232971786948012277760a^4b^3 + 26905174900552877473792a^5b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-1305104377073938022400a^6b^3 + 815971379621029765120a^7b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-30396735366281856000a^8b^3 + 8524039469071160320a^9b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-222704147073408000a^{10}b^3 + 33868551045854720a^{11}b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-578349779629440a^{12}b^3 + 51675343838720a^{13}b^3 - 514562256000a^{14}b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(27691901120a^{15}b^3 - 121183140a^{16}b^3 + 3838380a^{17}b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(39984567139728869031936b^4 + 65512554685757993779200ab^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(154417620818106034421760a^2b^4 + 10232971786948012277760a^3b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(38327310503030338682880a^4b^4 - 818072460932027392000a^5b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2047065136391010211840a^6b^4 - 56150289275168225280a^7b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(33983647480672398080a^8b^4 - 747273791730752000a^9b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(203756638452681600a^{10}b^4 - 3108756123025280a^{11}b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(458780823912320a^{12}b^4 - 4222336104000a^{13}b^4 + 363487274800a^{14}b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-1503913840a^{15}b^4 + 76904685a^{16}b^4 + 12169536711728431104000b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(38358521354056260648960ab^5 + 14394240797460086784000a^2b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(26905174900552877473792a^3b^5 + 818072460932027392000a^4b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2764891348675640504320a^5b^5 - 32402926255790970880a^6b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(76037685702312249344a^7b^5 - 1217702004544396800a^8b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(701249486202087680a^9b^5 - 8977712266723200a^{10}b^5 + 2339384513030656a^{11}b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-19257305995200a^{12}b^5 + 2710794657760a^{13}b^5 - 10403106480a^{14}b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(847660528a^{15}b^5 + 2644864803309469040640b^6 + 4809977661468731637760ab^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(9006637442780370698240a^2b^6 + 1305104377073938022400a^3b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2047065136391010211840a^4b^6 + 32402926255790970880a^5b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(99081667809563479040a^6b^6 - 663079757558732800a^7b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(1448211505329480320a^8b^6 - 13368731946810240a^9b^6 + 7250168038713600a^{10}b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(-49874169654400a^{11}b^6 + 12279903949040a^{12}b^6 - 42116280080a^{13}b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(5586853480a^{14}b^6 + 428121320345704202240b^7 + 1271523787720818425856ab^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(587532888242493440000a^2b^7 + 815971379621029765120a^3b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(56150289275168225280a^4b^7 + 76037685702312249344a^5b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(663079757558732800a^6b^7 + 1839537179798123520a^7b^7 - 6976726188981120a^8b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(14122827233349120a^9b^7 - 69454101974400a^{10}b^7 + 35232669875520a^{11}b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-100563362640a^{12}b^7 + 23206929840a^{13}b^7 + 53058097110810198016b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(100107830204285030400ab^8 + 164565961567558753280a^2b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(30396735366281856000a^3b^8 + 33983647480672398080a^4b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(1217702004544396800a^5b^8 + 1448211505329480320a^6b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(6976726188981120a^7b^8 + 17604559995422400a^8b^8 - 35103774420000a^9b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(65695429542600a^{10}b^8 - 133098568200a^{11}b^8 + 62852101650a^{12}b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(5127902731197542400b^9 + 14568453350802524160ab^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(7291699646996976640a^2b^9 + 8524039469071160320a^3b^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(747273791730752000a^4b^9 + 701249486202087680a^5b^9 + 13368731946810240a^6b^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(14122827233349120a^7b^9 + 35103774420000a^8b^9 + 80738681166000a^9b^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(-65641204200a^{10}b^9 + 113380261800a^{11}b^9 + 391088184834247680b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(741322929119984640ab^{10} + 1112051811883584000a^2b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(222704147073408000a^3b^{10} + 203756638452681600a^4b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(8977712266723200a^5b^{10} + 7250168038713600a^6b^{10} + 69454101974400a^7b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(65695429542600a^8b^{10} + 65641204200a^9b^{10} + 137846528820a^{10}b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(23695691648977920b^{11} + 64682699862303744ab^{11} + 32714471153894400a^2b^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(33868551045854720a^3b^{11} + 3108756123025280a^4b^{11} + 2339384513030656a^5b^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(49874169654400a^6b^{11} + 35232669875520a^7b^{11} + 133098568200a^8b^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(113380261800a^9b^{11} + 1143098049889536b^{12} + 2123185262348800ab^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2955037370962560a^2b^{12} + 578349779629440a^3b^{12} + 458780823912320a^4b^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$



$$\begin{aligned}
 & + \frac{1048576(19257305995200a^5b^{12} + 12279903949040a^6b^{12} + 100563362640a^7b^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(62852101650a^8b^{12} + 43808321523200b^{13} + 114691143878400ab^{13})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(55075110778240a^2b^{13} + 51675343838720a^3b^{13} + 4222336104000a^4b^{13})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(2710794657760a^5b^{13} + 42116280080a^6b^{13} + 23206929840a^7b^{13})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(1324347752320b^{14} + 2340026782080ab^{14} + 3035668729600a^2b^{14})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(514562256000a^3b^{14} + 363487274800a^4b^{14} + 10403106480a^5b^{14})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(5586853480a^6b^{14} + 31166140800b^{15} + 77608806912ab^{15} + 32315504000a^2b^{15})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(27691901120a^3b^{15} + 1503913840a^4b^{15} + 847660528a^5b^{15} + 558671136b^{16})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(891867600ab^{16} + 1072004700a^2b^{16} + 121183140a^3b^{16} + 76904685a^4b^{16})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(7364400b^{17} + 17102280ab^{17} + 4935060a^2b^{17} + 3838380a^3b^{17} + 67260b^{18})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{1048576(83980ab^{18} + 91390a^2b^{18} + 380b^{19} + 780ab^{19} + b^{20})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608b(34013194900465935974400a + 8076369381919618498560a^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(16017667719648264585216a^3 + 2202856796633765511168a^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608b(1337671570806147121152a^5 + 116776000294203555840a^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(33062489754527793152a^7 + 1909109835178131456a^8 + 297732275779620864a^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(11503019298101760a^{10} + 1067630825833728a^{11} + 27212622288384a^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1546630006016a^{13} + 24812291520a^{14} + 852813024a^{15} + 7720992a^{16})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(149568a^{17} + 570a^{18} + 5a^{19} + 34013194900465935974400b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(62373399361545434038272a^2b + 6195827282706639618048a^3b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(10795867815624462827520a^4b + 801961349457024385024a^5b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(457984136218944536576a^6b + 23889458796282806272a^7b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(6500154071143010304a^8b + 234184626615267328a^9b + 35305895207860992a^{10}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(856815128978432a^{11}b + 76697193128192a^{12}b + 1190860090112a^{13}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(64667959200a^{14}b + 575901248a^{15}b + 18542784a^{16}b + 71136a^{17}b + 1235a^{18}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-8076369381919618498560b^2 + 62373399361545434038272ab^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(27280156593735459667968a^3b^2 + 1376410227786579574784a^4b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608b(2136128178702377746432a^5b^2 + 92838028858510114816a^6b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(49354204923538784256a^7b^2 + 1594620399240101376a^8b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(410563537054930688a^9b^2 + 9281090278180864a^{10}b^2 + 1329832839116288a^{11}b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(19704433251776a^{12}b^2 + 1670792249952a^{13}b^2 + 14467402560a^{14}b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(735799168a^{15}b^2 + 2796534a^{16}b^2 + 82251a^{17}b^2 + 16017667719648264585216b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-6195827282706639618048ab^3 + 27280156593735459667968a^2b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(4422831380284155691008a^4b^3 + 125405438097635311616a^5b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(174806049847325245440a^6b^3 + 4625988228150468608a^7b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(2277445843005974784a^8b^3 + 45819548840299520a^9b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(11058023361775104a^{10}b^3 + 152189068874752a^{11}b^3 + 20490629691168a^{12}b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(169321768000a^{13}b^3 + 13423363200a^{14}b^3 + 49716160a^{15}b^3 + 2330445a^{16}b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-2202856796633765511168b^4 + 10795867815624462827520ab^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-1376410227786579574784a^2b^4 + 4422831380284155691008a^3b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608b(322167820563845308416a^5b^4 + 5406857577708274688a^6b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(6807758241153638912a^7b^4 + 110649675905134080a^8b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(50297980601440000a^9b^4 + 611798937830080a^{10}b^4 + 137514999454560a^{11}b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1052043661760a^{12}b^4 + 131977283200a^{13}b^4 + 466089000a^{14}b^4 + 34179860a^{15}b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1337671570806147121152b^5 - 801961349457024385024ab^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(2136128178702377746432a^2b^5 - 125405438097635311616a^3b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(322167820563845308416a^4b^5 + 11625869373580926464a^6b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(117361222632056832a^7b^5 + 134010948720599808a^8b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1302362430969600a^9b^5 + 545560766438688a^{10}b^5 + 3666408293184a^{11}b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(763819195776a^{12}b^5 + 2489632320a^{13}b^5 + 288975180a^{14}b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-116776000294203555840b^6 + 457984136218944536576ab^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-92838028858510114816a^2b^6 + 174806049847325245440a^3b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-5406857577708274688a^4b^6 + 11625869373580926464a^5b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$





$$\begin{aligned}
 & + \frac{8388608b(216965698627904512a^7b^6 + 1289003290550976a^8b^6 + 1338653612456160a^9b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(7123802061376a^{10}b^6 + 2745839893888a^{11}b^6 + 7821594872a^{12}b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1504152860a^13b^6 + 33062489754527793152b^7 - 23889458796282806272ab^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(49354204923538784256a^2b^7 - 4625988228150468608a^3b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(6807758241153638912a^4b^7 - 117361222632056832a^5b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(216965698627904512a^6b^7 + 2084572402282656a^8b^7 + 6698827586880a^9b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(6339912898176a^{10}b^7 + 14197180608a^{11}b^7 + 5028168132a^{12}b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-1909109835178131456b^8 + 6500154071143010304ab^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-1594620399240101376a^2b^8 + 2277445843005974784a^3b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-110649675905134080a^4b^8 + 134010948720599808a^5b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-1289003290550976a^6b^8 + 2084572402282656a^7b^8 + 9589323744000a^9b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(12842844300a^{10}b^8 + 11091547350a^{11}b^8 + 297732275779620864b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-234184626615267328ab^9 + 410563537054930688a^2b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$



$$\begin{aligned}
 & + \frac{8388608b(-45819548840299520a^3b^9 + 50297980601440000a^4b^9 - 1302362430969600a^5b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1338653612456160a^6b^9 - 6698827586880a^7b^9 + 9589323744000a^8b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(16410301050a^{10}b^9 - 11503019298101760b^{10} + 35305895207860992ab^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-9281090278180864a^2b^{10} + 11058023361775104a^3b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-611798937830080a^4b^{10} + 545560766438688a^5b^{10} - 7123802061376a^6b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(6339912898176a^7b^{10} - 12842844300a^8b^{10} + 16410301050a^9b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(1067630825833728b^{11} - 856815128978432ab^{11} + 1329832839116288a^2b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-152189068874752a^3b^{11} + 137514999454560a^4b^{11} - 3666408293184a^5b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(2745839893888a^6b^{11} - 14197180608a^7b^{11} + 11091547350a^8b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-27212622288384b^{12} + 76697193128192ab^{12} - 19704433251776a^2b^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(20490629691168a^3b^{12} - 1052043661760a^4b^{12} + 763819195776a^5b^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-7821594872a^6b^{12} + 5028168132a^7b^{12} + 1546630006016b^{13})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-1190860090112ab^{13} + 1670792249952a^2b^{13} - 169321768000a^3b^{13})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608b(131977283200a^4b^{13} - 2489632320a^5b^{13} + 1504152860a^6b^{13} - 24812291520b^{14})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(64667959200ab^{14} - 14467402560a^2b^{14} + 13423363200a^3b^{14} - 466089000a^4b^{14})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(288975180a^5b^{14} + 852813024b^{15} - 575901248ab^{15} + 735799168a^2b^{15})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-49716160a^3b^{15} + 34179860a^4b^{15} - 7720992b^{16} + 18542784ab^{16})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(-2796534a^2b^{16} + 2330445a^3b^{16} + 149568b^{17} - 71136ab^{17})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{8388608b(82251a^2b^{17} - 570b^{18} + 1235ab^{18} + 5b^{19})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} \Bigg\} - \\
 & - \frac{\Gamma(\frac{b+1}{2})}{\Gamma(\frac{a+1}{2})} \Bigg\{ \frac{8388608a(34013194900465935974400a - 8076369381919618498560a^2)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(16017667719648264585216a^3 - 2202856796633765511168a^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1337671570806147121152a^5 - 116776000294203555840a^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(33062489754527793152a^7 - 1909109835178131456a^8 + 297732275779620864a^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-11503019298101760a^{10} + 1067630825833728a^{11} - 27212622288384a^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1546630006016a^{13} - 24812291520a^{14} + 852813024a^{15} - 7720992a^{16})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(149568a^{17} - 570a^{18} + 5a^{19} + 34013194900465935974400b)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608a(62373399361545434038272a^2b - 6195827282706639618048a^3b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(10795867815624462827520a^4b - 801961349457024385024a^5b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(457984136218944536576a^6b - 23889458796282806272a^7b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(6500154071143010304a^8b - 234184626615267328a^9b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(35305895207860992a^{10}b - 856815128978432a^{11}b + 76697193128192a^{12}b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-1190860090112a^{13}b + 64667959200a^{14}b - 575901248a^{15}b + 18542784a^{16}b)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-71136a^{17}b + 1235a^{18}b + 8076369381919618498560b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(62373399361545434038272ab^2 + 27280156593735459667968a^3b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-1376410227786579574784a^4b^2 + 2136128178702377746432a^5b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-92838028858510114816a^6b^2 + 49354204923538784256a^7b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-1594620399240101376a^8b^2 + 410563537054930688a^9b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(-9281090278180864a^{10}b^2 + 1329832839116288a^{11}b^2 - 19704433251776a^{12}b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} + \\
 & + \frac{8388608a(1670792249952a^{13}b^2 - 14467402560a^{14}b^2 + 735799168a^{15}b^2 - 2796534a^{16}b^2)}{\left[\prod_{\gamma=0}^{19} \{a - b - 2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a - b + 2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608a(82251a^{17}b^2 + 16017667719648264585216b^3 + 6195827282706639618048ab^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(27280156593735459667968a^2b^3 + 4422831380284155691008a^4b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-125405438097635311616a^5b^3 + 174806049847325245440a^6b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-4625988228150468608a^7b^3 + 2277445843005974784a^8b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-45819548840299520a^9b^3 + 11058023361775104a^{10}b^3 - 152189068874752a^{11}b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(20490629691168a^{12}b^3 - 169321768000a^{13}b^3 + 13423363200a^{14}b^3)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-49716160a^{15}b^3 + 2330445a^{16}b^3 + 2202856796633765511168b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(10795867815624462827520ab^4 + 1376410227786579574784a^2b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(4422831380284155691008a^3b^4 + 322167820563845308416a^5b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-5406857577708274688a^6b^4 + 6807758241153638912a^7b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-110649675905134080a^8b^4 + 50297980601440000a^9b^4 - 611798937830080a^{10}b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(137514999454560a^{11}b^4 - 1052043661760a^{12}b^4 + 131977283200a^{13}b^4)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-46608900a^14b^4 + 34179860a^15b^4 + 1337671570806147121152b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608a(801961349457024385024ab^5 + 2136128178702377746432a^2b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(12540543809765311616 a^3b^5 + 322167820563845308416a^4b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(11625869373580926464a^6b^5 - 117361222632056832a^7b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(134010948720599808a^8b^5 - 1302362430969600a^9b^5 + 545560766438688a^{10}b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-3666408293184a^{11}b^5 + 763819195776a^{12}b^5 - 2489632320a^{13}b^5)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(288975180a^14b^5 + 116776000294203555840b^6 + 457984136218944536576ab^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(92838028858510114816a^2b^6 + 174806049847325245440a^3b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(5406857577708274688a^4b^6 + 11625869373580926464a^5b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(216965698627904512a^7b^6 - 1289003290550976a^8b^6 + 1338653612456160a^9b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(-7123802061376a^{10}b^6 + 2745839893888a^{11}b^6 - 7821594872a^{12}b^6)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1504152860a^13b^6 + 33062489754527793152b^7 + 23889458796282806272ab^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(49354204923538784256a^2b^7 + 4625988228150468608a^3b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(6807758241153638912a^4b^7 + 117361222632056832a^5b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608a(216965698627904512a^6b^7 + 2084572402282656a^8b^7 - 6698827586880a^9b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(6339912898176a^{10}b^7 - 14197180608a^{11}b^7 + 5028168132a^{12}b^7)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1909109835178131456b^8 + 6500154071143010304ab^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1594620399240101376a^2b^8 + 2277445843005974784a^3b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(110649675905134080a^4b^8 + 134010948720599808a^5b^8 + 1289003290550976a^6b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(2084572402282656a^7b^8 + 9589323744000a^9b^8 - 12842844300a^{10}b^8)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(11091547350a^{11}b^8 + 297732275779620864b^9 + 234184626615267328ab^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(410563537054930688a^2b^9 + 45819548840299520a^3b^9 + 50297980601440000a^4b^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(130236243069600a^5b^9 + 1338653612456160a^6b^9 + 6698827586880a^7b^9)}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(9589323744000a^8b^9 + 16410301050a^{10}b^9 + 11503019298101760b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(35305895207860992ab^{10} + 9281090278180864a^2b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(11058023361775104a^3b^{10} + 611798937830080a^4b^{10} + 545560766438688a^5b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(7123802061376a^6b^{10} + 6339912898176a^7b^{10} + 12842844300a^8b^{10})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{8388608a(16410301050a^9b^{10} + 1067630825833728b^{11} + 856815128978432ab^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1329832839116288a^2b^{11} + 152189068874752a^3b^{11} + 137514999454560a^4b^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(3666408293184a^5b^{11} + 2745839893888a^6b^{11} + 14197180608a^7b^{11})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(11091547350a^8b^{11} + 27212622288384b^{12} + 76697193128192ab^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(19704433251776a^2b^{12} + 20490629691168a^3b^{12} + 1052043661760a^4b^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(763819195776a^5b^{12} + 7821594872a^6b^{12} + 5028168132a^7b^{12})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1546630006016b^{13} + 1190860090112ab^{13} + 1670792249952a^2b^{13})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(169321768000a^3b^{13} + 131977283200a^4b^{13} + 2489632320a^5b^{13})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(1504152860a^6b^{13} + 24812291520b^{14} + 64667959200ab^{14} + 14467402560a^2b^{14})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(13423363200a^3b^{14} + 466089000a^4b^{14} + 288975180a^5b^{14} + 852813024b^{15})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(575901248ab^{15} + 735799168a^2b^{15} + 49716160a^3b^{15} + 34179860a^4b^{15})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(7720992b^{16} + 18542784ab^{16} + 2796534a^2b^{16} + 2330445a^3b^{16} + 149568b^{17})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} + \\
 & + \frac{8388608a(71136ab^{17} + 82251a^2b^{17} + 570b^{18} + 1235ab^{18} + 5b^{19})}{\left[\prod_{\gamma=0}^{19} \{a-b-2\gamma\} \right] \left[\prod_{\delta=1}^{20} \{a-b+2\delta\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(63777066403145711616000a + 113132213847363000729600a^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(87636014575275642716160a^3 + 39984567139728869031936a^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(12169536711728431104000a^5 + 2644864803309469040640a^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(428121320345704202240a^7 + 53058097110810198016a^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(5127902731197542400a^9 + 391088184834247680a^{10} + 23695691648977920a^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1143098049889536a^{12} + 43808321523200a^{13} + 1324347752320a^{14})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(31166140800a^{15} + 558671136a^{16} + 7364400a^{17} + 67260a^{18} + 380a^{19} + a^{20})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-63777066403145711616000b + 317946690712728974131200ab)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(121980950631985226711040a^2b + 306857692785107647070208a^3b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(65512554685757993779200a^4b + 38358521354056260648960a^5b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(4809977661468731637760a^6b + 1271523787720818425856a^7b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(100107830204285030400a^8b + 14568453350802524160a^9b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(741322929119984640a^{10}b + 64682699862303744a^{11}b + 2123185262348800a^{12}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(114691143878400a^{13}b + 2340026782080a^{14}b + 77608806912a^{15}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(891867600a^{16}b + 17102280a^{17}b + 83980a^{18}b + 780a^{19}b)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(113132213847363000729600b^2 - 121980950631985226711040ab^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(560572553449426145771520a^2b^2 + 57692905687837782835200a^3b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(154417620818106034421760a^4b^2 + 14394240797460086784000a^5b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(9006637442780370698240a^6b^2 + 587532888242493440000a^7b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(164565961567558753280a^8b^2 + 7291699646996976640a^9b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1112051811883584000a^{10}b^2 + 32714471153894400a^{11}b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(2955037370962560a^{12}b^2 + 55075110778240a^{13}b^2 + 3035668729600a^{14}b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(32315504000a^{15}b^2 + 1072004700a^{16}b^2 + 4935060a^{17}b^2 + 91390a^{18}b^2)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-87636014575275642716160b^3 + 306857692785107647070208ab^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-57692905687837782835200a^2b^3 + 239777121731713585643520a^3b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(10232971786948012277760a^4b^3 + 26905174900552877473792a^5b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(1305104377073938022400a^6b^3 + 815971379621029765120a^7b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(30396735366281856000a^8b^3 + 8524039469071160320a^9b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(222704147073408000a^{10}b^3 + 33868551045854720a^{11}b^3 + 578349779629440a^{12}b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(51675343838720a^{13}b^3 + 514562256000a^{14}b^3 + 27691901120a^{15}b^3)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(121183140a^{16}b^3 + 3838380a^{17}b^3 + 39984567139728869031936b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-65512554685757993779200ab^4 + 154417620818106034421760a^2b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-10232971786948012277760a^3b^4 + 38327310503030338682880a^4b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(818072460932027392000a^5b^4 + 2047065136391010211840a^6b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(56150289275168225280a^7b^4 + 33983647480672398080a^8b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(747273791730752000a^9b^4 + 203756638452681600a^{10}b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(3108756123025280a^{11}b^4 + 458780823912320a^{12}b^4 + 4222336104000a^{13}b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(363487274800a^{14}b^4 + 1503913840a^{15}b^4 + 76904685a^{16}b^4)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-12169536711728431104000b^5 + 38358521354056260648960ab^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(-14394240797460086784000a^2b^5 + 26905174900552877473792a^3b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-818072460932027392000a^4b^5 + 2764891348675640504320a^5b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(32402926255790970880a^6b^5 + 76037685702312249344a^7b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1217702004544396800a^8b^5 + 701249486202087680a^9b^5 + 8977712266723200a^{10}b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(2339384513030656a^{11}b^5 + 19257305995200a^{12}b^5 + 2710794657760a^{13}b^5)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(10403106480a^{14}b^5 + 847660528a^{15}b^5 + 2644864803309469040640b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-4809977661468731637760ab^6 + 9006637442780370698240a^2b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-1305104377073938022400a^3b^6 + 2047065136391010211840a^4b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-32402926255790970880a^5b^6 + 99081667809563479040a^6b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(663079757558732800a^7b^6 + 1448211505329480320a^8b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(13368731946810240a^9b^6 + 7250168038713600a^{10}b^6 + 49874169654400a^{11}b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(12279903949040a^{12}b^6 + 42116280080a^{13}b^6 + 5586853480a^{14}b^6)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-428121320345704202240b^7 + 1271523787720818425856ab^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$



$$\begin{aligned}
 & + \frac{1048576(-587532888242493440000a^2b^7 + 815971379621029765120a^3b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-56150289275168225280a^4b^7 + 76037685702312249344a^5b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-663079757558732800a^6b^7 + 1839537179798123520a^7b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(6976726188981120a^8b^7 + 14122827233349120a^9b^7 + 69454101974400a^{10}b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(35232669875520a^{11}b^7 + 100563362640a^{12}b^7 + 23206929840a^{13}b^7)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(53058097110810198016b^8 - 100107830204285030400ab^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(164565961567558753280a^2b^8 - 30396735366281856000a^3b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(33983647480672398080a^4b^8 - 1217702004544396800a^5b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1448211505329480320a^6b^8 - 6976726188981120a^7b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(17604559995422400a^8b^8 + 35103774420000a^9b^8 + 65695429542600a^{10}b^8)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(133098568200a^{11}b^8 + 62852101650a^{12}b^8 - 5127902731197542400b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(14568453350802524160ab^9 - 7291699646996976640a^2b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(8524039469071160320a^3b^9 - 747273791730752000a^4b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(701249486202087680a^5b^9 - 13368731946810240a^6b^9 + 14122827233349120a^7b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-35103774420000a^8b^9 + 80738681166000a^9b^9 + 65641204200a^{10}b^9)}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(113380261800a^11b^9 + 391088184834247680b^{10} - 741322929119984640ab^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1112051811883584000a^2b^{10} - 222704147073408000a^3b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(203756638452681600a^4b^{10} - 8977712266723200a^5b^{10} + 7250168038713600a^6b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-69454101974400a^7b^{10} + 65695429542600a^8b^{10} - 65641204200a^9b^{10})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(137846528820a^10b^{10} - 23695691648977920b^{11} + 64682699862303744ab^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-32714471153894400a^2b^{11} + 33868551045854720a^3b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-3108756123025280a^4b^{11} + 2339384513030656a^5b^{11} - 49874169654400a^6b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(35232669875520a^7b^{11} - 133098568200a^8b^{11} + 113380261800a^9b^{11})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(1143098049889536b^{12} - 2123185262348800ab^{12} + 2955037370962560a^2b^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-578349779629440a^3b^{12} + 458780823912320a^4b^{12} - 19257305995200a^5b^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(12279903949040a^6b^{12} - 100563362640a^7b^{12} + 62852101650a^8b^{12})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} +
 \end{aligned}$$

$$\begin{aligned}
 & + \frac{1048576(-43808321523200b^{13} + 114691143878400ab^{13} - 55075110778240a^2b^{13})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(51675343838720a^3b^{13} - 4222336104000a^4b^{13} + 2710794657760a^5b^{13})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-42116280080a^6b^{13} + 23206929840a^7b^{13} + 1324347752320b^{14})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-2340026782080ab^{14} + 3035668729600a^2b^{14} - 514562256000a^3b^{14})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(363487274800a^4b^{14} - 10403106480a^5b^{14} + 5586853480a^6b^{14} - 31166140800b^{15})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(77608806912ab^{15} - 32315504000a^2b^{15} + 27691901120a^3b^{15} - 1503913840a^4b^{15})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(847660528a^5b^{15} + 558671136b^{16} - 891867600ab^{16} + 1072004700a^2b^{16})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-121183140a^3b^{16} + 76904685a^4b^{16} - 7364400b^{17} + 17102280ab^{17})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(-4935060a^2b^{17} + 3838380a^3b^{17} + 67260b^{18} - 83980ab^{18})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} + \\
 & + \frac{1048576(91390a^2b^{18} - 380b^{19} + 780ab^{19} + b^{20})}{\left[\prod_{\mu=0}^{20} \{a-b-2\mu\} \right] \left[\prod_{\xi=1}^{19} \{a-b+2\xi\} \right]} \Bigg\} \quad (8)
 \end{aligned}$$

III. DERIVATION OF THE MAIN SUMMATION FORMULA

Proceeding on the same way of Ref[6], we get the main result.

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