TABULAIRES

25 JUIN 2025

OGOU OLANIRAN CYRIAQUE
KILIBO-BENIN

$\sum_{k=1}^{n} z_k = -\frac{a_{n-1}}{a_n}$
$\sum_{k=1}^{n} z_k^2 = -\frac{2a_{n-2}}{a_n} + \frac{a_{n-1}^2}{a_n^2}$
$\sum_{k=1}^{n} z_k^3 = -\frac{3a_{n-3}}{a_n} - \frac{a_{n-1}^3}{a_n^3} + \frac{3a_{n-1}a_{n-2}}{a_n^2}$
$\sum_{k=1}^{n} z_k^4 = -\frac{4a_{n-4}}{a_n} + \frac{2a_{n-2}^2}{a_n^2} + \frac{a_{n-1}^4}{a_n^4} + \frac{4a_{n-1}a_{n-3}}{a_n^2} - \frac{4a_{n-1}^2a_{n-2}}{a_n^3}$
$\sum_{k=1}^{n} z_k^5 = -\frac{5a_{n-5}}{a_n} - \frac{a_{n-1}^5}{a_n^5} + \frac{5a_{n-1}a_{n-4}}{a_n^2} + \frac{5a_{n-2}a_{n-3}}{a_n^2} - \frac{5a_{n-1}^2a_{n-3}}{a_n^3} - \frac{5a_{n-1}a_{n-2}^2}{a_n^3} + \frac{5a_{n-1}^3a_{n-2}}{a_n^4}$
$\sum_{k=1}^{n} z_k^6 = -\frac{6a_{n-6}}{a_n} + \frac{3a_{n-3}^2}{a_n^2} - \frac{2a_{n-2}^3}{a_n^3} + \frac{a_{n-1}^6}{a_n^6} + \frac{6a_{n-1}a_{n-5}}{a_n^2} + \frac{6a_{n-2}a_{n-4}}{a_n^2} - \frac{6a_{n-1}^2a_{n-4}}{a_n^3} + \frac{6a_{n-1}^3a_{n-3}}{a_n^4} - \frac{6a_{n-1}^4a_{n-2}}{a_n^5} + \frac{9a_{n-1}^2a_{n-2}^2}{a_n^4} - \frac{12a_{n-1}a_{n-2}a_{n-3}}{a_n^3}$
$\sum_{k=1}^{n} z_k^7 = -\frac{7a_{n-7}}{a_n} - \frac{a_{n-1}^7}{a_n^7} + \frac{7a_{n-1}a_{n-6}}{a_n^2} + \frac{7a_{n-2}a_{n-5}}{a_n^2} + \frac{7a_{n-3}a_{n-4}}{a_n^2} - \frac{7a_{n-1}^2a_{n-5}}{a_n^3} - \frac{7a_{n-1}a_{n-3}^2}{a_n^3} - \frac{7a_{n-2}^2a_{n-3}}{a_n^3} + \frac{7a_{n-1}^3a_{n-4}}{a_n^4} + \frac{7a_{n-1}a_{n-2}^3}{a_n^4} - \frac{7a_{n-1}^4a_{n-3}}{a_n^5} + \frac{7a_{n-1}^5a_{n-2}}{a_n^6} - \frac{14a_{n-1}^3a_{n-2}^2}{a_n^5} - \frac{14a_{n-1}a_{n-2}a_{n-4}}{a_n^3} + \frac{21a_{n-1}^2a_{n-2}a_{n-3}}{a_n^4}$
$\sum_{k=1}^{n} z_k^8 = -\frac{8a_{n-8}}{a_n} + \frac{4a_{n-4}^2}{a_n^2} + \frac{2a_{n-2}^4}{a_n^4} + \frac{a_{n-1}^8}{a_n^8} + \frac{8a_{n-1}a_{n-7}}{a_n^2} + \frac{8a_{n-2}a_{n-6}}{a_n^2} + \frac{8a_{n-3}a_{n-5}}{a_n^2} - \frac{8a_{n-1}^2a_{n-6}}{a_n^3} - \frac{8a_{n-2}a_{n-3}^2}{a_n^3} - \frac{8a_{n-2}^2a_{n-4}}{a_n^3} + \frac{8a_{n-1}^3a_{n-5}}{a_n^4} - \frac{8a_{n-1}^4a_{n-4}}{a_n^5} + \frac{8a_{n-1}^5a_{n-3}}{a_n^6} - \frac{8a_{n-1}^6a_{n-2}}{a_n^7} + \frac{12a_{n-1}^2a_{n-3}^2}{a_n^4} - \frac{16a_{n-1}^2a_{n-2}^3}{a_n^5} + \frac{20a_{n-1}^4a_{n-2}^2}{a_n^6} - \frac{16a_{n-1}a_{n-3}a_{n-4}}{a_n^3} - \frac{16a_{n-1}a_{n-2}a_{n-5}}{a_n^3} + \frac{24a_{n-1}^2a_{n-2}a_{n-4}}{a_n^4} + \frac{24a_{n-1}a_{n-2}^2a_{n-3}}{a_n^4} - \frac{32a_{n-1}^3a_{n-2}a_{n-3}}{a_n^5}$

$$\sum_{k=1}^{n} z_k^9 = -\frac{9a_{n-9}}{a_n} - \frac{3a_{n-3}^3}{a_n^3} - \frac{a_{n-1}^9}{a_n^9} + \frac{9a_{n-1}a_{n-8}}{a_n^2} + \frac{9a_{n-2}a_{n-7}}{a_n^2} + \frac{9a_{n-3}a_{n-6}}{a_n^2} + \frac{9a_{n-4}a_{n-5}}{a_n^2} - \frac{9a_{n-1}^2a_{n-7}}{a_n^3} - \frac{9a_{n-1}a_{n-4}^2}{a_n^3} - \frac{9a_{n-2}^2a_{n-5}}{a_n^3} + \frac{9a_{n-1}^3a_{n-6}}{a_n^4} + \frac{9a_{n-2}^3a_{n-3}}{a_n^4} - \frac{9a_{n-1}^4a_{n-5}}{a_n^5} - \frac{9a_{n-1}a_{n-2}^4}{a_n^5} + \frac{9a_{n-1}^5a_{n-4}}{a_n^6} - \frac{9a_{n-1}^6a_{n-3}}{a_n^7} + \frac{9a_{n-1}^7a_{n-2}}{a_n^8} - \frac{18a_{n-1}^3a_{n-3}^2}{a_n^5} - \frac{27a_{n-1}^5a_{n-2}^2}{a_n^7} + \frac{30a_{n-1}^3a_{n-2}^3}{a_n^6} - \frac{18a_{n-1}a_{n-2}a_{n-6}}{a_n^3} - \frac{18a_{n-1}a_{n-3}a_{n-5}}{a_n^3} - \frac{18a_{n-2}a_{n-3}a_{n-4}}{a_n^3} + \frac{27a_{n-1}^2a_{n-3}a_{n-4}}{a_n^4} + \frac{27a_{n-1}^2a_{n-2}a_{n-5}}{a_n^4} + \frac{27a_{n-1}a_{n-2}^2a_{n-4}}{a_n^4} + \frac{27a_{n-1}a_{n-2}a_{n-3}^2}{a_n^4} - \frac{36a_{n-1}^3a_{n-2}a_{n-4}}{a_n^5} + \frac{45a_{n-1}^4a_{n-2}a_{n-3}}{a_n^6} - \frac{54a_{n-1}^2a_{n-2}^2a_{n-3}}{a_n^5}$$

$$\sum_{k=1}^{n} z_k^{10} = -\frac{10a_{n-10}}{a_n} + \frac{5a_{n-5}^2}{a_n^2} - \frac{2a_{n-2}^5}{a_n^5} + \frac{a_{n-1}^{10}}{a_n^{10}} + \frac{10a_{n-1}a_{n-9}}{a_n^2} + \frac{10a_{n-2}a_{n-8}}{a_n^2} + \frac{10a_{n-3}a_{n-7}}{a_n^2} + \frac{10a_{n-4}a_{n-6}}{a_n^2} - \frac{10a_{n-1}^2a_{n-8}}{a_n^3} - \frac{10a_{n-2}a_{n-4}^2}{a_n^3} - \frac{10a_{n-2}^2a_{n-6}}{a_n^3} - \frac{10a_{n-3}^2a_{n-4}}{a_n^3} + \frac{10a_{n-1}^3a_{n-7}}{a_n^4} + \frac{10a_{n-1}a_{n-3}^3}{a_n^4} + \frac{10a_{n-2}^3a_{n-4}}{a_n^4} - \frac{10a_{n-1}^4a_{n-6}}{a_n^5} + \frac{10a_{n-1}^5a_{n-5}}{a_n^6} - \frac{10a_{n-1}^6a_{n-4}}{a_n^7} + \frac{10a_{n-1}^7a_{n-3}}{a_n^8} - \frac{10a_{n-1}^8a_{n-2}}{a_n^9} + \frac{15a_{n-2}^2a_{n-3}^2}{a_n^4} + \frac{15a_{n-1}^2a_{n-4}^2}{a_n^4} + \frac{25a_{n-1}^2a_{n-2}^4}{a_n^6} + \frac{25a_{n-1}^4a_{n-3}^2}{a_n^6} + \frac{35a_{n-1}^6a_{n-2}^2}{a_n^8} - \frac{50a_{n-1}^4a_{n-2}^3}{a_n^7} - \frac{20a_{n-1}a_{n-2}a_{n-7}}{a_n^3} - \frac{20a_{n-1}a_{n-3}a_{n-6}}{a_n^3} - \frac{20a_{n-1}a_{n-4}a_{n-5}}{a_n^3} - \frac{20a_{n-2}a_{n-3}a_{n-5}}{a_n^3} + \frac{30a_{n-1}^2a_{n-3}a_{n-5}}{a_n^4} + \frac{30a_{n-1}^2a_{n-2}a_{n-6}}{a_n^4} + \frac{30a_{n-1}a_{n-2}^2a_{n-5}}{a_n^4} - \frac{40a_{n-1}^3a_{n-2}a_{n-5}}{a_n^5} - \frac{40a_{n-1}^3a_{n-3}a_{n-4}}{a_n^5} - \frac{40a_{n-1}a_{n-2}^3a_{n-3}}{a_n^5} + \frac{50a_{n-1}^4a_{n-2}a_{n-4}}{a_n^6} - \frac{60a_{n-1}^5a_{n-2}a_{n-3}}{a_n^7} - \frac{60a_{n-1}^2a_{n-2}^2a_{n-4}}{a_n^5} - \frac{60a_{n-1}^2a_{n-2}a_{n-3}^2}{a_n^5} + \frac{100a_{n-1}^3a_{n-2}^2a_{n-3}}{a_n^6} + \frac{60a_{n-1}a_{n-2}a_{n-3}a_{n-4}}{a_n^4}$$

$$\sum_{k=1}^{n} z_k^{11} = -\frac{11a_{n-11}}{a_n} - \frac{a_{n-1}^{11}}{a_n^{11}} + \frac{11a_{n-1}a_{n-10}}{a_n^2} + \frac{11a_{n-2}a_{n-9}}{a_n^2} + \frac{11a_{n-3}a_{n-8}}{a_n^2} + \frac{11a_{n-4}a_{n-7}}{a_n^2} + \frac{11a_{n-5}a_{n-6}}{a_n^2} - \frac{11a_{n-1}^2a_{n-9}}{a_n^3} - \frac{11a_{n-1}a_{n-5}^2}{a_n^3} - \frac{11a_{n-3}a_{n-4}^2}{a_n^3} - \frac{11a_{n-2}^2a_{n-7}}{a_n^3} - \frac{11a_{n-3}^2a_{n-5}}{a_n^3} + \frac{11a_{n-1}^3a_{n-8}}{a_n^4} + \frac{11a_{n-2}a_{n-3}^3}{a_n^4} + \frac{11a_{n-2}^3a_{n-5}}{a_n^4} - \frac{11a_{n-1}^4a_{n-7}}{a_n^5} - \frac{11a_{n-2}^4a_{n-3}}{a_n^5} + \frac{11a_{n-1}^5a_{n-6}}{a_n^6} + \frac{11a_{n-1}a_{n-2}^5}{a_n^6} - \frac{11a_{n-1}^6a_{n-5}}{a_n^7} + \frac{11a_{n-1}^7a_{n-4}}{a_n^8} - \frac{11a_{n-1}^8a_{n-3}}{a_n^9} + \frac{11a_{n-1}^9a_{n-2}}{a_n^{10}} - \frac{22a_{n-1}^2a_{n-3}^3}{a_n^5} - \frac{22a_{n-1}^3a_{n-2}^2}{a_n^5} - \frac{33a_{n-1}^5a_{n-3}^2}{a_n^7} - \frac{44a_{n-1}^7a_{n-2}^2}{a_n^9} - \frac{55a_{n-1}^3a_{n-2}^4}{a_n^7} + \frac{77a_{n-1}^5a_{n-2}^3}{a_n^8} - \frac{22a_{n-1}a_{n-2}a_{n-8}}{a_n^3} - \frac{22a_{n-1}a_{n-3}a_{n-7}}{a_n^3} - \frac{22a_{n-1}a_{n-4}a_{n-6}}{a_n^3} - \frac{22a_{n-2}a_{n-3}a_{n-6}}{a_n^3} - \frac{22a_{n-2}a_{n-4}a_{n-5}}{a_n^3} + \frac{33a_{n-1}^2a_{n-2}a_{n-7}}{a_n^4} + \frac{33a_{n-1}^2a_{n-3}a_{n-6}}{a_n^4} + \frac{33a_{n-1}^2a_{n-4}a_{n-5}}{a_n^4} + \frac{33a_{n-2}^2a_{n-3}a_{n-4}}{a_n^4} + \frac{33a_{n-1}a_{n-2}^2a_{n-6}}{a_n^4} + \frac{33a_{n-1}a_{n-3}^2a_{n-4}}{a_n^4} + \frac{33a_{n-1}a_{n-2}a_{n-4}^2}{a_n^4} - \frac{44a_{n-1}^3a_{n-2}a_{n-6}}{a_n^5} - \frac{44a_{n-1}^3a_{n-3}a_{n-5}}{a_n^5} - \frac{44a_{n-1}^3a_{n-4}^2}{a_n^5} - \frac{44a_{n-1}^4a_{n-2}a_{n-5}}{a_n^6} - \frac{44a_{n-1}^4a_{n-3}a_{n-4}}{a_n^6} - \frac{44a_{n-1}a_{n-2}^3a_{n-5}}{a_n^5} - \frac{44a_{n-1}a_{n-2}^2a_{n-3}^2}{a_n^5} + \frac{55a_{n-1}^2a_{n-2}^3a_{n-4}}{a_n^6} + \frac{55a_{n-1}^2a_{n-2}^2a_{n-3}^2}{a_n^6} + \frac{77a_{n-1}^4a_{n-2}^2a_{n-3}}{a_n^7} + \frac{77a_{n-1}^3a_{n-2}^3a_{n-3}}{a_n^7} + \frac{77a_{n-1}^3a_{n-2}^2a_{n-4}}{a_n^7} + \frac{77a_{n-1}^2a_{n-2}^3a_{n-3}}{a_n^7} + \frac{77a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}}{a_n^5}$$

$$\frac{44a_{n-1}^3a_{n-3}a_{n-5}}{a_n^5}-\frac{44a_{n-1}a_{n-2}^3a_{n-4}}{a_n^5}+\frac{55a_{n-1}^4a_{n-2}a_{n-5}}{a_n^6}+\frac{55a_{n-1}^4a_{n-3}a_{n-4}}{a_n^6}-\frac{66a_{n-1}^5a_{n-2}a_{n-4}}{a_n^7}+\frac{77a_{n-1}^6a_{n-2}a_{n-3}}{a_n^8}-\frac{66a_{n-1}^2a_{n-2}^2a_{n-5}}{a_n^5}-\frac{66a_{n-1}a_{n-2}^2a_{n-3}^2}{a_n^5}+\frac{110a_{n-1}^3a_{n-2}^2a_{n-4}}{a_n^6}+\frac{110a_{n-1}^3a_{n-2}a_{n-3}^2}{a_n^6}+\frac{110a_{n-1}^2a_{n-2}^3a_{n-3}}{a_n^6}-\frac{165a_{n-1}^4a_{n-2}^2a_{n-3}}{a_n^7}+\frac{66a_{n-1}a_{n-2}a_{n-3}a_{n-5}}{a_n^4}-\frac{132a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}}{a_n^5}$$

$$\sum_{k=1}^{n}Z_k^{12}=-\frac{12a_{n-12}}{a_n}+\frac{6a_{n-6}^2}{a_n^2}-\frac{4a_{n-4}^3}{a_n^3}+\frac{3a_{n-3}^4}{a_n^4}+\frac{2a_{n-2}^6}{a_n^6}+\frac{a_{n-1}^{12}}{a_n^{12}}+\frac{12a_{n-1}a_{n-11}}{a_n^2}+\frac{12a_{n-2}a_{n-10}}{a_n^2}+\frac{12a_{n-3}a_{n-9}}{a_n^2}+\frac{12a_{n-4}a_{n-8}}{a_n^2}+\frac{12a_{n-5}a_{n-7}}{a_n^2}-\frac{12a_{n-1}^2a_{n-10}}{a_n^3}-\frac{12a_{n-2}a_{n-5}^2}{a_n^3}-\frac{12a_{n-2}^2a_{n-8}}{a_n^3}-\frac{12a_{n-3}^2a_{n-6}}{a_n^3}+\frac{12a_{n-1}^3a_{n-9}}{a_n^4}+\frac{12a_{n-2}^3a_{n-6}}{a_n^4}-\frac{12a_{n-1}^4a_{n-8}}{a_n^5}-\frac{12a_{n-2}^4a_{n-4}}{a_n^5}+\frac{12a_{n-1}^5a_{n-7}}{a_n^6}-\frac{12a_{n-1}^6a_{n-6}}{a_n^7}+\frac{12a_{n-1}^7a_{n-5}}{a_n^8}-\frac{12a_{n-1}^8a_{n-4}}{a_n^9}+\frac{12a_{n-1}^9a_{n-3}}{a_n^{10}}-\frac{12a_{n-1}^{10}a_{n-2}}{a_n^{11}}+\frac{18a_{n-1}^2a_{n-5}^2}{a_n^4}+\frac{18a_{n-2}^2a_{n-4}^2}{a_n^4}-\frac{24a_{n-2}^3a_{n-3}^2}{a_n^6}+\frac{40a_{n-1}^3a_{n-3}^3}{a_n^6}+\frac{30a_{n-1}^4a_{n-4}^2}{a_n^6}-\frac{36a_{n-1}^2a_{n-2}^5}{a_n^7}+\frac{42a_{n-1}^6a_{n-3}^2}{a_n^8}+\frac{54a_{n-1}^8a_{n-2}^2}{a_n^{10}}+\frac{105a_{n-1}^4a_{n-2}^4}{a_n^8}-\frac{112a_{n-1}^6a_{n-2}^3}{a_n^9}-\frac{24a_{n-1}a_{n-2}a_{n-9}}{a_n^3}-\frac{24a_{n-1}a_{n-3}a_{n-8}}{a_n^3}-\frac{24a_{n-1}a_{n-4}a_{n-7}}{a_n^3}-\frac{24a_{n-1}a_{n-5}a_{n-6}}{a_n^3}-\frac{24a_{n-2}a_{n-3}a_{n-7}}{a_n^3}-\frac{24a_{n-2}a_{n-4}a_{n-6}}{a_n^3}-\frac{24a_{n-3}a_{n-4}a_{n-5}}{a_n^3}+\frac{36a_{n-1}^2a_{n-2}a_{n-8}}{a_n^4}+\frac{36a_{n-1}^2a_{n-3}a_{n-7}}{a_n^4}+\frac{36a_{n-1}^2a_{n-4}a_{n-6}}{a_n^4}+\frac{36a_{n-2}^2a_{n-3}a_{n-5}}{a_n^4}+\frac{36a_{n-1}a_{n-2}^2a_{n-7}}{a_n^4}+\frac{36a_{n-2}a_{n-3}^2a_{n-4}}{a_n^4}+\frac{36a_{n-1}a_{n-3}^2a_{n-5}}{a_n^4}+\frac{36a_{n-1}a_{n-3}a_{n-4}^2}{a_n^4}-\frac{48a_{n-1}^3a_{n-2}a_{n-7}}{a_n^5}-\frac{48a_{n-1}^3a_{n-3}a_{n-6}}{a_n^5}-\frac{48a_{n-1}^3a_{n-4}a_{n-5}}{a_n^5}-\frac{48a_{n-1}a_{n-2}^3a_{n-5}}{a_n^5}-\frac{48a_{n-1}a_{n-2}a_{n-3}^3}{a_n^5}+\frac{60a_{n-1}^4a_{n-2}a_{n-6}}{a_n^6}+\frac{60a_{n-1}^4a_{n-3}a_{n-5}}{a_n^6}+\frac{60a_{n-1}a_{n-2}^4a_{n-3}}{a_n^6}-\frac{72a_{n-1}^5a_{n-2}a_{n-5}}{a_n^7}-\frac{72a_{n-1}^5a_{n-3}a_{n-4}}{a_n^7}+\frac{84a_{n-1}^6a_{n-2}a_{n-4}}{a_n^8}-\frac{96a_{n-1}^7a_{n-2}a_{n-3}}{a_n^9}-\frac{72a_{n-1}^2a_{n-2}^2a_{n-6}}{a_n^5}-\frac{72a_{n-1}^2a_{n-3}^2a_{n-4}}{a_n^5}-\frac{72a_{n-1}^2a_{n-2}a_{n-4}^2}{a_n^5}+\frac{180a_{n-1}^2a_{n-2}^2a_{n-3}^2}{a_n^6}+\frac{120a_{n-1}^3a_{n-2}^2a_{n-5}}{a_n^6}+\frac{120a_{n-1}^2a_{n-2}^3a_{n-4}}{a_n^6}-\frac{240a_{n-1}^3a_{n-2}^3a_{n-3}}{a_n^7}-\frac{180a_{n-1}^4a_{n-2}^2a_{n-4}}{a_n^7}-\frac{180a_{n-1}^4a_{n-2}a_{n-3}^2}{a_n^7}+\frac{252a_{n-1}^5a_{n-2}^2a_{n-3}}{a_n^8}+\frac{72a_{n-1}a_{n-2}a_{n-3}a_{n-6}}{a_n^4}+\frac{72a_{n-1}a_{n-2}a_{n-4}a_{n-5}}{a_n^4}-\frac{144a_{n-1}^2a_{n-2}a_{n-3}a_{n-5}}{a_n^5}-\frac{144a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}}{a_n^5}+\frac{240a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}}{a_n^6}$$

$$\sum_{k=1}^{n}Z_k^{13}=-\frac{13a_{n-13}}{a_n}-\frac{a_{n-1}^{13}}{a_n^{13}}+\frac{13a_{n-1}a_{n-12}}{a_n^2}+\frac{13a_{n-2}a_{n-11}}{a_n^2}+\frac{13a_{n-3}a_{n-10}}{a_n^2}+\frac{13a_{n-4}a_{n-9}}{a_n^2}+\frac{13a_{n-5}a_{n-8}}{a_n^2}+\frac{13a_{n-6}a_{n-7}}{a_n^2}-\frac{13a_{n-1}^2a_{n-11}}{a_n^3}-\frac{13a_{n-1}a_{n-6}^2}{a_n^3}-$$

$$\frac{13a_{n-3}a_{n-5}^2}{a_n^3}-\frac{13a_{n-2}^2a_{n-9}}{a_n^3}-\frac{13a_{n-3}^2a_{n-7}}{a_n^3}-\frac{13a_{n-4}^2a_{n-5}}{a_n^3}+\frac{13a_{n-1}^3a_{n-10}}{a_n^4}+$$
$$\frac{13a_{n-1}a_{n-4}^3}{a_n^4}+\frac{13a_{n-2}^3a_{n-7}}{a_n^4}+\frac{13a_{n-3}^3a_{n-4}}{a_n^4}-\frac{13a_{n-1}^4a_{n-9}}{a_n^5}-\frac{13a_{n-1}a_{n-3}^4}{a_n^5}-$$
$$\frac{13a_{n-2}^4a_{n-5}}{a_n^5}+\frac{13a_{n-1}^5a_{n-8}}{a_n^6}+\frac{13a_{n-2}^5a_{n-3}}{a_n^6}-\frac{13a_{n-1}^6a_{n-7}}{a_n^7}-\frac{13a_{n-1}a_{n-2}^6}{a_n^7}+$$
$$\frac{13a_{n-1}^7a_{n-6}}{a_n^8}-\frac{13a_{n-1}^8a_{n-5}}{a_n^9}+\frac{13a_{n-1}^9a_{n-4}}{a_n^{10}}-\frac{13a_{n-1}^{10}a_{n-3}}{a_n^{11}}+\frac{13a_{n-1}^{11}a_{n-2}}{a_n^{12}}-$$
$$\frac{26a_{n-1}^3a_{n-5}^2}{a_n^5}-\frac{26a_{n-2}^2a_{n-3}^3}{a_n^5}-\frac{39a_{n-1}^5a_{n-4}^2}{a_n^7}-\frac{52a_{n-1}^7a_{n-3}^2}{a_n^9}-\frac{65a_{n-1}^9a_{n-2}^2}{a_n^{11}}-$$
$$\frac{65a_{n-1}^4a_{n-3}^3}{a_n^7}+\frac{91a_{n-1}^3a_{n-2}^5}{a_n^8}+\frac{156a_{n-1}^7a_{n-2}^3}{a_n^{10}}-\frac{182a_{n-1}^5a_{n-2}^4}{a_n^9}-\frac{26a_{n-1}a_{n-2}a_{n-10}}{a_n^3}-$$
$$\frac{26a_{n-1}a_{n-3}a_{n-9}}{a_n^3}-\frac{26a_{n-1}a_{n-4}a_{n-8}}{a_n^3}-\frac{26a_{n-1}a_{n-5}a_{n-7}}{a_n^3}-\frac{26a_{n-2}a_{n-3}a_{n-8}}{a_n^3}-$$
$$\frac{26a_{n-2}a_{n-4}a_{n-7}}{a_n^3}-\frac{26a_{n-2}a_{n-5}a_{n-6}}{a_n^3}-\frac{26a_{n-3}a_{n-4}a_{n-6}}{a_n^3}+\frac{39a_{n-1}^2a_{n-2}a_{n-9}}{a_n^4}+$$
$$\frac{39a_{n-1}^2a_{n-3}a_{n-8}}{a_n^4}+\frac{39a_{n-1}^2a_{n-4}a_{n-7}}{a_n^4}+\frac{39a_{n-1}^2a_{n-5}a_{n-6}}{a_n^4}+\frac{39a_{n-1}a_{n-2}^2a_{n-8}}{a_n^4}+$$
$$\frac{39a_{n-1}a_{n-3}^2a_{n-6}}{a_n^4}+\frac{39a_{n-1}a_{n-2}a_{n-5}^2}{a_n^4}+\frac{39a_{n-2}^2a_{n-3}a_{n-6}}{a_n^4}+\frac{39a_{n-2}^2a_{n-4}a_{n-5}}{a_n^4}+$$
$$\frac{39a_{n-2}a_{n-3}^2a_{n-5}}{a_n^4}+\frac{39a_{n-2}a_{n-3}a_{n-4}^2}{a_n^4}-\frac{52a_{n-1}^3a_{n-2}a_{n-8}}{a_n^5}-\frac{52a_{n-1}^3a_{n-3}a_{n-7}}{a_n^5}-$$
$$\frac{52a_{n-1}^3a_{n-4}a_{n-6}}{a_n^5}-\frac{52a_{n-1}a_{n-2}^3a_{n-6}}{a_n^5}-\frac{52a_{n-2}^3a_{n-3}a_{n-4}}{a_n^5}+\frac{65a_{n-1}^4a_{n-2}a_{n-7}}{a_n^6}+$$
$$\frac{65a_{n-1}^4a_{n-3}a_{n-6}}{a_n^6}+\frac{65a_{n-1}^4a_{n-4}a_{n-5}}{a_n^6}+\frac{65a_{n-1}a_{n-2}^4a_{n-4}}{a_n^6}-\frac{78a_{n-1}^5a_{n-2}a_{n-6}}{a_n^7}-$$
$$\frac{78a_{n-1}^5a_{n-3}a_{n-5}}{a_n^7}+\frac{91a_{n-1}^6a_{n-2}a_{n-5}}{a_n^8}+\frac{91a_{n-1}^6a_{n-3}a_{n-4}}{a_n^8}-\frac{104a_{n-1}^7a_{n-2}a_{n-4}}{a_n^9}+$$
$$\frac{117a_{n-1}^8a_{n-2}a_{n-3}}{a_n^{10}}-\frac{78a_{n-1}^2a_{n-2}^2a_{n-7}}{a_n^5}-\frac{78a_{n-1}^2a_{n-3}^2a_{n-5}}{a_n^5}-\frac{78a_{n-1}^2a_{n-3}a_{n-4}^2}{a_n^5}-$$
$$\frac{78a_{n-1}a_{n-2}^2a_{n-4}^2}{a_n^5}+\frac{130a_{n-1}^3a_{n-2}^2a_{n-6}}{a_n^6}+\frac{130a_{n-1}^3a_{n-3}^2a_{n-4}}{a_n^6}+\frac{130a_{n-1}^3a_{n-2}a_{n-4}^2}{a_n^6}+$$
$$\frac{130a_{n-1}^2a_{n-2}^3a_{n-5}}{a_n^6}+\frac{130a_{n-1}a_{n-2}^3a_{n-3}^2}{a_n^6}+\frac{130a_{n-1}^2a_{n-2}a_{n-3}^3}{a_n^6}-\frac{195a_{n-1}^4a_{n-2}^2a_{n-5}}{a_n^7}-$$
$$\frac{195a_{n-1}^2a_{n-2}^4a_{n-3}}{a_n^7}+\frac{273a_{n-1}^5a_{n-2}^2a_{n-4}}{a_n^8}+\frac{273a_{n-1}^5a_{n-2}a_{n-3}^2}{a_n^8}-\frac{364a_{n-1}^6a_{n-2}^2a_{n-3}}{a_n^9}-$$
$$\frac{260a_{n-1}^3a_{n-2}^3a_{n-4}}{a_n^7}+\frac{455a_{n-1}^4a_{n-2}^3a_{n-3}}{a_n^8}-\frac{390a_{n-1}^3a_{n-2}^2a_{n-3}^2}{a_n^7}+\frac{78a_{n-1}a_{n-2}a_{n-3}a_{n-7}}{a_n^4}+$$
$$\frac{78a_{n-1}a_{n-2}a_{n-4}a_{n-6}}{a_n^4}+\frac{78a_{n-1}a_{n-3}a_{n-4}a_{n-5}}{a_n^4}-\frac{156a_{n-1}^2a_{n-2}a_{n-3}a_{n-6}}{a_n^5}-$$
$$\frac{156a_{n-1}^2a_{n-2}a_{n-4}a_{n-5}}{a_n^5}-\frac{156a_{n-1}a_{n-2}^2a_{n-3}a_{n-5}}{a_n^5}-\frac{156a_{n-1}a_{n-2}a_{n-3}^2a_{n-4}}{a_n^5}+$$
$$\frac{260a_{n-1}^3a_{n-2}a_{n-3}a_{n-5}}{a_n^6}-\frac{390a_{n-1}^4a_{n-2}a_{n-3}a_{n-4}}{a_n^7}+\frac{390a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}}{a_n^6}$$

$$\sum_{k=1}^{n} z_k^{14} = -\frac{14a_{n-14}}{a_n} + \frac{7a_{n-7}^2}{a_n^2} - \frac{2a_{n-2}^7}{a_n^7} + \frac{a_{n-1}^{14}}{a_n^{14}} + \frac{14a_{n-1}a_{n-13}}{a_n^2} + \frac{14a_{n-2}a_{n-12}}{a_n^2} +$$
$$\frac{14a_{n-3}a_{n-11}}{a_n^2} + \frac{14a_{n-4}a_{n-10}}{a_n^2} + \frac{14a_{n-5}a_{n-9}}{a_n^2} + \frac{14a_{n-6}a_{n-8}}{a_n^2} - \frac{14a_{n-1}^2a_{n-12}}{a_n^3} -$$
$$\frac{14a_{n-2}a_{n-6}^2}{a_n^3} - \frac{14a_{n-4}a_{n-5}^2}{a_n^3} - \frac{14a_{n-2}^2a_{n-10}}{a_n^3} - \frac{14a_{n-3}^2a_{n-8}}{a_n^3} - \frac{14a_{n-4}^2a_{n-6}}{a_n^3} +$$
$$\frac{14a_{n-1}^3a_{n-11}}{a_n^4} + \frac{14a_{n-2}a_{n-4}^3}{a_n^4} + \frac{14a_{n-2}^3a_{n-8}}{a_n^4} + \frac{14a_{n-3}^3a_{n-5}}{a_n^4} - \frac{14a_{n-1}^4a_{n-10}}{a_n^5} -$$
$$\frac{14a_{n-2}a_{n-3}^4}{a_n^5} - \frac{14a_{n-2}^4a_{n-6}}{a_n^5} + \frac{14a_{n-1}^5a_{n-9}}{a_n^6} + \frac{14a_{n-2}^5a_{n-4}}{a_n^6} - \frac{14a_{n-1}^6a_{n-8}}{a_n^7} +$$
$$\frac{14a_{n-1}^7a_{n-7}}{a_n^8} - \frac{14a_{n-1}^8a_{n-6}}{a_n^9} + \frac{14a_{n-1}^9a_{n-5}}{a_n^{10}} - \frac{14a_{n-1}^{10}a_{n-4}}{a_n^{11}} + \frac{14a_{n-1}^{11}a_{n-3}}{a_n^{12}} -$$
$$\frac{14a_{n-1}^{12}a_{n-2}}{a_n^{13}} + \frac{21a_{n-1}^2a_{n-6}^2}{a_n^4} + \frac{21a_{n-2}^2a_{n-5}^2}{a_n^4} + \frac{21a_{n-3}^2a_{n-4}^2}{a_n^4} - \frac{28a_{n-1}^2a_{n-4}^3}{a_n^5} -$$
$$\frac{28a_{n-2}^3a_{n-4}^2}{a_n^5} + \frac{35a_{n-1}^4a_{n-5}^2}{a_n^6} + \frac{35a_{n-1}^2a_{n-3}^4}{a_n^6} + \frac{35a_{n-2}^4a_{n-3}^2}{a_n^6} + \frac{49a_{n-1}^2a_{n-2}^6}{a_n^8} +$$
$$\frac{49a_{n-1}^6a_{n-4}^2}{a_n^8} + \frac{63a_{n-1}^8a_{n-3}^2}{a_n^{10}} + \frac{77a_{n-1}^{10}a_{n-2}^2}{a_n^{12}} + \frac{98a_{n-1}^5a_{n-3}^3}{a_n^8} - \frac{210a_{n-1}^8a_{n-2}^3}{a_n^{11}} -$$
$$\frac{196a_{n-1}^4a_{n-2}^5}{a_n^9} + \frac{294a_{n-1}^6a_{n-2}^4}{a_n^{10}} - \frac{28a_{n-1}a_{n-2}a_{n-11}}{a_n^3} - \frac{28a_{n-1}a_{n-3}a_{n-10}}{a_n^3} -$$
$$\frac{28a_{n-1}a_{n-4}a_{n-9}}{a_n^3} - \frac{28a_{n-1}a_{n-5}a_{n-8}}{a_n^3} - \frac{28a_{n-1}a_{n-6}a_{n-7}}{a_n^3} - \frac{28a_{n-2}a_{n-3}a_{n-9}}{a_n^3} -$$
$$\frac{28a_{n-2}a_{n-4}a_{n-8}}{a_n^3} - \frac{28a_{n-2}a_{n-5}a_{n-7}}{a_n^3} - \frac{28a_{n-3}a_{n-4}a_{n-7}}{a_n^3} - \frac{28a_{n-3}a_{n-5}a_{n-6}}{a_n^3} +$$
$$\frac{42a_{n-1}^2a_{n-2}a_{n-10}}{a_n^4} + \frac{42a_{n-1}^2a_{n-3}a_{n-9}}{a_n^4} + \frac{42a_{n-1}^2a_{n-4}a_{n-8}}{a_n^4} + \frac{42a_{n-1}^2a_{n-5}a_{n-7}}{a_n^4} +$$
$$\frac{42a_{n-1}a_{n-3}a_{n-5}^2}{a_n^4} + \frac{42a_{n-1}a_{n-2}^2a_{n-9}}{a_n^4} + \frac{42a_{n-1}a_{n-3}^2a_{n-7}}{a_n^4} + \frac{42a_{n-1}a_{n-4}^2a_{n-5}}{a_n^4} +$$
$$\frac{42a_{n-2}^2a_{n-3}a_{n-7}}{a_n^4} + \frac{42a_{n-2}^2a_{n-4}a_{n-6}}{a_n^4} + \frac{42a_{n-2}a_{n-3}^2a_{n-6}}{a_n^4} - \frac{56a_{n-1}^3a_{n-2}a_{n-9}}{a_n^5} -$$
$$\frac{56a_{n-1}^3a_{n-3}a_{n-8}}{a_n^5} - \frac{56a_{n-1}^3a_{n-4}a_{n-7}}{a_n^5} - \frac{56a_{n-1}^3a_{n-5}a_{n-6}}{a_n^5} - \frac{56a_{n-1}a_{n-2}^3a_{n-7}}{a_n^5} -$$
$$\frac{56a_{n-1}a_{n-3}^3a_{n-4}}{a_n^5} - \frac{56a_{n-2}^3a_{n-3}a_{n-5}}{a_n^5} + \frac{70a_{n-1}^4a_{n-2}a_{n-8}}{a_n^6} + \frac{70a_{n-1}^4a_{n-3}a_{n-7}}{a_n^6} +$$
$$\frac{70a_{n-1}^4a_{n-4}a_{n-6}}{a_n^6} + \frac{70a_{n-1}a_{n-2}^4a_{n-5}}{a_n^6} - \frac{84a_{n-1}^5a_{n-2}a_{n-7}}{a_n^7} - \frac{84a_{n-1}^5a_{n-3}a_{n-6}}{a_n^7} -$$
$$\frac{84a_{n-1}^5a_{n-4}a_{n-5}}{a_n^7} - \frac{84a_{n-1}a_{n-2}^5a_{n-3}}{a_n^7} + \frac{98a_{n-1}^6a_{n-2}a_{n-6}}{a_n^8} + \frac{98a_{n-1}^6a_{n-3}a_{n-5}}{a_n^8} -$$
$$\frac{112a_{n-1}^7a_{n-2}a_{n-5}}{a_n^9} - \frac{112a_{n-1}^7a_{n-3}a_{n-4}}{a_n^9} + \frac{126a_{n-1}^8a_{n-2}a_{n-4}}{a_n^{10}} - \frac{140a_{n-1}^9a_{n-2}a_{n-3}}{a_n^{11}} -$$
$$\frac{84a_{n-1}^2a_{n-2}^2a_{n-8}}{a_n^5} - \frac{84a_{n-1}^2a_{n-3}^2a_{n-6}}{a_n^5} - \frac{84a_{n-1}^2a_{n-2}a_{n-5}^2}{a_n^5} - \frac{84a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^5} +$$
$$\frac{140a_{n-1}^3a_{n-2}^2a_{n-7}}{a_n^6} + \frac{140a_{n-1}^3a_{n-3}^2a_{n-5}}{a_n^6} + \frac{140a_{n-1}^3a_{n-3}a_{n-4}^2}{a_n^6} + \frac{140a_{n-1}^2a_{n-2}^3a_{n-6}}{a_n^6} +$$
$$\frac{140a_{n-1}a_{n-2}^2a_{n-3}^3}{a_n^6} - \frac{210a_{n-1}^4a_{n-2}^2a_{n-6}}{a_n^7} - \frac{210a_{n-1}^4a_{n-3}^2a_{n-4}}{a_n^7} - \frac{210a_{n-1}^4a_{n-2}a_{n-4}^2}{a_n^7} -$$
$$\frac{210a_{n-1}^2a_{n-2}^4a_{n-4}}{a_n^7} + \frac{294a_{n-1}^5a_{n-2}^2a_{n-5}}{a_n^8} - \frac{392a_{n-1}^6a_{n-2}^2a_{n-4}}{a_n^9} - \frac{392a_{n-1}^6a_{n-2}a_{n-3}^2}{a_n^9} +$$

$$\frac{504a_{n-1}^7a_{n-2}^2a_{n-3}}{a_n^{10}}-\frac{280a_{n-1}^3a_{n-2}^3a_{n-5}}{a_n^7}-\frac{280a_{n-1}^3a_{n-2}a_{n-3}^3}{a_n^7}+\frac{490a_{n-1}^4a_{n-2}^3a_{n-4}}{a_n^8}+\frac{490a_{n-1}^3a_{n-2}^4a_{n-3}}{a_n^8}-\frac{784a_{n-1}^5a_{n-2}^3a_{n-3}}{a_n^9}+\frac{210a_{n-1}^2a_{n-2}^2a_{n-4}^2}{a_n^6}-\frac{420a_{n-1}^2a_{n-2}^3a_{n-3}^2}{a_n^7}+\frac{735a_{n-1}^4a_{n-2}^2a_{n-3}^2}{a_n^8}+\frac{84a_{n-1}a_{n-2}a_{n-3}a_{n-8}}{a_n^4}+\frac{84a_{n-1}a_{n-2}a_{n-4}a_{n-7}}{a_n^4}+\frac{84a_{n-1}a_{n-2}a_{n-5}a_{n-6}}{a_n^4}+\frac{84a_{n-1}a_{n-3}a_{n-4}a_{n-6}}{a_n^4}+\frac{84a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^4}-\frac{168a_{n-1}^2a_{n-2}a_{n-3}a_{n-7}}{a_n^5}-\frac{168a_{n-1}^2a_{n-2}a_{n-4}a_{n-6}}{a_n^5}-\frac{168a_{n-1}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^5}-\frac{168a_{n-1}a_{n-2}^2a_{n-3}a_{n-6}}{a_n^5}-\frac{168a_{n-1}a_{n-2}^2a_{n-4}a_{n-5}}{a_n^5}-\frac{168a_{n-1}a_{n-2}a_{n-3}^2a_{n-5}}{a_n^5}-\frac{168a_{n-1}a_{n-2}a_{n-3}a_{n-4}^2}{a_n^5}+\frac{280a_{n-1}^3a_{n-2}a_{n-3}a_{n-6}}{a_n^6}+\frac{280a_{n-1}^3a_{n-2}a_{n-4}a_{n-5}}{a_n^6}+\frac{280a_{n-1}a_{n-2}^3a_{n-3}a_{n-4}}{a_n^6}-\frac{420a_{n-1}^4a_{n-2}a_{n-3}a_{n-5}}{a_n^7}+\frac{588a_{n-1}^5a_{n-2}a_{n-3}a_{n-4}}{a_n^8}+\frac{420a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-5}}{a_n^6}+\frac{420a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-4}}{a_n^6}-\frac{840a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-4}}{a_n^7}$$

$$\sum_{k=1}^n z_k^{15}=-\frac{15a_{n-15}}{a_n}-\frac{5a_{n-5}^3}{a_n^3}-\frac{3a_{n-3}^5}{a_n^5}-\frac{a_{n-1}^{15}}{a_n^{15}}+\frac{15a_{n-1}a_{n-14}}{a_n^2}+\frac{15a_{n-2}a_{n-13}}{a_n^2}+\frac{15a_{n-3}a_{n-12}}{a_n^2}+\frac{15a_{n-4}a_{n-11}}{a_n^2}+\frac{15a_{n-5}a_{n-10}}{a_n^2}+\frac{15a_{n-6}a_{n-9}}{a_n^2}+\frac{15a_{n-7}a_{n-8}}{a_n^2}-\frac{15a_{n-1}^2a_{n-13}}{a_n^3}-\frac{15a_{n-1}a_{n-7}^2}{a_n^3}-\frac{15a_{n-3}a_{n-6}^2}{a_n^3}-\frac{15a_{n-2}^2a_{n-11}}{a_n^3}-\frac{15a_{n-3}^2a_{n-9}}{a_n^3}-\frac{15a_{n-4}^2a_{n-7}}{a_n^3}+\frac{15a_{n-1}^3a_{n-12}}{a_n^4}+\frac{15a_{n-3}a_{n-4}^3}{a_n^4}+\frac{15a_{n-2}^3a_{n-9}}{a_n^4}+\frac{15a_{n-3}^3a_{n-6}}{a_n^4}-\frac{15a_{n-1}^4a_{n-11}}{a_n^5}-\frac{15a_{n-2}^4a_{n-7}}{a_n^5}+\frac{15a_{n-1}^5a_{n-10}}{a_n^6}+\frac{15a_{n-2}^5a_{n-5}}{a_n^6}-\frac{15a_{n-1}^6a_{n-9}}{a_n^7}-\frac{15a_{n-2}^6a_{n-3}}{a_n^7}+\frac{15a_{n-1}^7a_{n-8}}{a_n^8}+\frac{15a_{n-1}a_{n-2}^7}{a_n^8}-\frac{15a_{n-1}^8a_{n-7}}{a_n^9}+\frac{15a_{n-1}^9a_{n-6}}{a_n^{10}}-\frac{15a_{n-1}^{10}a_{n-5}}{a_n^{11}}+\frac{15a_{n-1}^{11}a_{n-4}}{a_n^{12}}-\frac{15a_{n-1}^{12}a_{n-3}}{a_n^{13}}+\frac{15a_{n-1}^{13}a_{n-2}}{a_n^{14}}-\frac{30a_{n-1}^3a_{n-6}^2}{a_n^5}-\frac{45a_{n-1}^5a_{n-5}^2}{a_n^7}-\frac{60a_{n-1}^7a_{n-4}^2}{a_n^9}-\frac{75a_{n-1}^9a_{n-3}^2}{a_n^{11}}-\frac{90a_{n-1}^{11}a_{n-2}^2}{a_n^{13}}+\frac{50a_{n-1}^3a_{n-4}^3}{a_n^6}+\frac{50a_{n-2}^3a_{n-3}^3}{a_n^6}-\frac{75a_{n-1}^3a_{n-3}^4}{a_n^7}-\frac{140a_{n-1}^6a_{n-3}^3}{a_n^9}-\frac{140a_{n-1}^3a_{n-2}^6}{a_n^9}+\frac{275a_{n-1}^9a_{n-2}^3}{a_n^{12}}-\frac{450a_{n-1}^7a_{n-2}^4}{a_n^{11}}+\frac{378a_{n-1}^5a_{n-2}^5}{a_n^{10}}-\frac{30a_{n-1}a_{n-2}a_{n-12}}{a_n^3}-\frac{30a_{n-1}a_{n-3}a_{n-11}}{a_n^3}-\frac{30a_{n-1}a_{n-4}a_{n-10}}{a_n^3}-\frac{30a_{n-1}a_{n-5}a_{n-9}}{a_n^3}-\frac{30a_{n-1}a_{n-6}a_{n-8}}{a_n^3}-\frac{30a_{n-2}a_{n-3}a_{n-10}}{a_n^3}-\frac{30a_{n-2}a_{n-4}a_{n-9}}{a_n^3}-\frac{30a_{n-2}a_{n-5}a_{n-8}}{a_n^3}-\frac{30a_{n-2}a_{n-6}a_{n-7}}{a_n^3}-\frac{30a_{n-3}a_{n-4}a_{n-8}}{a_n^3}-\frac{30a_{n-3}a_{n-5}a_{n-7}}{a_n^3}-\frac{30a_{n-4}a_{n-5}a_{n-6}}{a_n^3}+\frac{45a_{n-1}^2a_{n-2}a_{n-11}}{a_n^4}+\frac{45a_{n-1}^2a_{n-3}a_{n-10}}{a_n^4}+\frac{45a_{n-1}^2a_{n-4}a_{n-9}}{a_n^4}+\frac{45a_{n-1}^2a_{n-5}a_{n-8}}{a_n^4}+\frac{45a_{n-1}^2a_{n-6}a_{n-7}}{a_n^4}+\frac{45a_{n-1}a_{n-2}a_{n-6}^2}{a_n^4}+\frac{45a_{n-1}a_{n-4}a_{n-5}^2}{a_n^4}+\frac{45a_{n-1}a_{n-2}^2a_{n-10}}{a_n^4}+\frac{45a_{n-1}a_{n-3}^2a_{n-8}}{a_n^4}+\frac{45a_{n-1}a_{n-4}^2a_{n-6}}{a_n^4}+$$

$$\frac{45a_{n-2}^2a_{n-3}a_{n-8}}{a_n^4}+\frac{45a_{n-2}^2a_{n-4}a_{n-7}}{a_n^4}+\frac{45a_{n-2}^2a_{n-5}a_{n-6}}{a_n^4}+\frac{45a_{n-2}a_{n-3}^2a_{n-7}}{a_n^4}+$$
$$\frac{45a_{n-3}^2a_{n-4}a_{n-5}}{a_n^4}+\frac{45a_{n-2}a_{n-4}^2a_{n-5}}{a_n^4}+\frac{45a_{n-2}a_{n-3}a_{n-5}^2}{a_n^4}-\frac{60a_{n-1}^3a_{n-2}a_{n-10}}{a_n^5}-$$
$$\frac{60a_{n-1}^3a_{n-3}a_{n-9}}{a_n^5}-\frac{60a_{n-1}^3a_{n-4}a_{n-8}}{a_n^5}-\frac{60a_{n-1}^3a_{n-5}a_{n-7}}{a_n^5}-\frac{60a_{n-1}a_{n-2}a_{n-4}^3}{a_n^5}-$$
$$\frac{60a_{n-1}a_{n-2}^3a_{n-8}}{a_n^5}-\frac{60a_{n-1}a_{n-3}^3a_{n-5}}{a_n^5}-\frac{60a_{n-2}^3a_{n-3}a_{n-6}}{a_n^5}-\frac{60a_{n-2}^3a_{n-4}a_{n-5}}{a_n^5}-$$
$$\frac{60a_{n-2}a_{n-3}^3a_{n-4}}{a_n^5}+\frac{75a_{n-1}^4a_{n-2}a_{n-9}}{a_n^6}+\frac{75a_{n-1}^4a_{n-3}a_{n-8}}{a_n^6}+\frac{75a_{n-1}^4a_{n-4}a_{n-7}}{a_n^6}+$$
$$\frac{75a_{n-1}^4a_{n-5}a_{n-6}}{a_n^6}+\frac{75a_{n-1}a_{n-2}a_{n-3}^4}{a_n^6}+\frac{75a_{n-1}a_{n-2}^4a_{n-6}}{a_n^6}+\frac{75a_{n-2}^4a_{n-3}a_{n-4}}{a_n^6}-$$
$$\frac{90a_{n-1}^5a_{n-2}a_{n-8}}{a_n^7}-\frac{90a_{n-1}^5a_{n-3}a_{n-7}}{a_n^7}-\frac{90a_{n-1}^5a_{n-4}a_{n-6}}{a_n^7}-\frac{90a_{n-1}a_{n-2}^5a_{n-4}}{a_n^7}+$$
$$\frac{105a_{n-1}^6a_{n-2}a_{n-7}}{a_n^8}+\frac{105a_{n-1}^6a_{n-3}a_{n-6}}{a_n^8}+\frac{105a_{n-1}^6a_{n-4}a_{n-5}}{a_n^8}-\frac{120a_{n-1}^7a_{n-2}a_{n-6}}{a_n^9}-$$
$$\frac{120a_{n-1}^7a_{n-3}a_{n-5}}{a_n^9}+\frac{135a_{n-1}^8a_{n-2}a_{n-5}}{a_n^{10}}+\frac{135a_{n-1}^8a_{n-3}a_{n-4}}{a_n^{10}}-\frac{150a_{n-1}^9a_{n-2}a_{n-4}}{a_n^{11}}+$$
$$\frac{165a_{n-1}^{10}a_{n-2}a_{n-3}}{a_n^{12}}-\frac{90a_{n-1}^2a_{n-2}^2a_{n-9}}{a_n^5}-\frac{90a_{n-1}^2a_{n-3}^2a_{n-7}}{a_n^5}-\frac{90a_{n-1}^2a_{n-4}^2a_{n-5}}{a_n^5}-$$
$$\frac{90a_{n-1}^2a_{n-3}a_{n-5}^2}{a_n^5}-\frac{90a_{n-1}a_{n-2}^2a_{n-5}^2}{a_n^5}-\frac{90a_{n-1}a_{n-3}^2a_{n-4}^2}{a_n^5}-\frac{90a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^5}-$$
$$\frac{90a_{n-2}^2a_{n-3}a_{n-4}^2}{a_n^5}+\frac{150a_{n-1}^3a_{n-2}^2a_{n-8}}{a_n^6}+\frac{150a_{n-1}^3a_{n-3}^2a_{n-6}}{a_n^6}+\frac{150a_{n-1}^3a_{n-2}a_{n-5}^2}{a_n^6}+$$
$$\frac{150a_{n-1}^2a_{n-2}^3a_{n-7}}{a_n^6}+\frac{150a_{n-1}^2a_{n-3}^3a_{n-4}}{a_n^6}+\frac{150a_{n-1}a_{n-2}^3a_{n-4}^2}{a_n^6}-\frac{225a_{n-1}^4a_{n-2}^2a_{n-7}}{a_n^7}-$$
$$\frac{225a_{n-1}^4a_{n-3}^2a_{n-5}}{a_n^7}-\frac{225a_{n-1}^4a_{n-3}a_{n-4}^2}{a_n^7}-\frac{225a_{n-1}^2a_{n-2}^4a_{n-5}}{a_n^7}-\frac{225a_{n-1}a_{n-2}^4a_{n-3}^2}{a_n^7}+$$
$$\frac{315a_{n-1}^5a_{n-2}^2a_{n-6}}{a_n^8}+\frac{315a_{n-1}^5a_{n-3}^2a_{n-4}}{a_n^8}+\frac{315a_{n-1}^5a_{n-2}a_{n-4}^2}{a_n^8}+\frac{315a_{n-1}^2a_{n-2}^5a_{n-3}}{a_n^8}-$$
$$\frac{420a_{n-1}^6a_{n-2}^2a_{n-5}}{a_n^9}+\frac{540a_{n-1}^7a_{n-2}^2a_{n-4}}{a_n^{10}}+\frac{540a_{n-1}^7a_{n-2}a_{n-3}^2}{a_n^{10}}-\frac{675a_{n-1}^8a_{n-2}^2a_{n-3}}{a_n^{11}}-$$
$$\frac{300a_{n-1}^3a_{n-2}^3a_{n-6}}{a_n^7}+\frac{525a_{n-1}^4a_{n-2}^3a_{n-5}}{a_n^8}+\frac{525a_{n-1}^4a_{n-2}a_{n-3}^3}{a_n^8}+\frac{525a_{n-1}^3a_{n-2}^4a_{n-4}}{a_n^8}-$$
$$\frac{840a_{n-1}^5a_{n-2}^3a_{n-4}}{a_n^9}+\frac{1260a_{n-1}^6a_{n-2}^3a_{n-3}}{a_n^{10}}-\frac{1050a_{n-1}^4a_{n-2}^4a_{n-3}}{a_n^9}-\frac{450a_{n-1}^3a_{n-2}^2a_{n-4}^2}{a_n^7}-$$
$$\frac{450a_{n-1}^2a_{n-2}^2a_{n-3}^3}{a_n^7}-\frac{1260a_{n-1}^5a_{n-2}^2a_{n-3}^2}{a_n^9}+\frac{1050a_{n-1}^3a_{n-2}^3a_{n-3}^2}{a_n^8}+\frac{90a_{n-1}a_{n-2}a_{n-3}a_{n-9}}{a_n^4}+$$
$$\frac{90a_{n-1}a_{n-2}a_{n-4}a_{n-8}}{a_n^4}+\frac{90a_{n-1}a_{n-2}a_{n-5}a_{n-7}}{a_n^4}+\frac{90a_{n-1}a_{n-3}a_{n-4}a_{n-7}}{a_n^4}+$$
$$\frac{90a_{n-1}a_{n-3}a_{n-5}a_{n-6}}{a_n^4}+\frac{90a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^4}-\frac{180a_{n-1}^2a_{n-2}a_{n-3}a_{n-8}}{a_n^5}-$$
$$\frac{180a_{n-1}^2a_{n-2}a_{n-4}a_{n-7}}{a_n^5}-\frac{180a_{n-1}^2a_{n-2}a_{n-5}a_{n-6}}{a_n^5}-\frac{180a_{n-1}^2a_{n-3}a_{n-4}a_{n-6}}{a_n^5}-$$
$$\frac{180a_{n-1}a_{n-2}^2a_{n-3}a_{n-7}}{a_n^5}-\frac{180a_{n-1}a_{n-2}^2a_{n-4}a_{n-6}}{a_n^5}-\frac{180a_{n-1}a_{n-2}a_{n-3}^2a_{n-6}}{a_n^4}+$$
$$\frac{300a_{n-1}^3a_{n-2}a_{n-3}a_{n-7}}{a_n^6}+\frac{360a_{n-1}^3a_{n-2}a_{n-4}a_{n-6}}{a_n^6}+\frac{360a_{n-1}^3a_{n-3}a_{n-4}a_{n-5}}{a_n^6}+$$

$$\frac{300a_{n-1}a_{n-2}^3a_{n-3}a_{n-5}}{a_n^6}-\frac{450a_{n-1}^4a_{n-2}a_{n-3}a_{n-6}}{a_n^7}-\frac{450a_{n-1}^4a_{n-2}a_{n-4}a_{n-5}}{a_n^7}+\frac{630a_{n-1}^5a_{n-2}a_{n-3}a_{n-5}}{a_n^8}-\frac{840a_{n-1}^6a_{n-2}a_{n-3}a_{n-4}}{a_n^9}+\frac{450a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-6}}{a_n^6}+\frac{450a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-5}}{a_n^6}+\frac{450a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-5}}{a_n^6}+\frac{450a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}^2}{a_n^6}+\frac{450a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^6}-\frac{900a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-5}}{a_n^7}-\frac{900a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-4}}{a_n^7}-\frac{900a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-4}}{a_n^7}+\frac{1575a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-4}}{a_n^8}-\frac{360a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^5}$$

$$\sum_{k=1}^{n}Z_k^{16}=-\frac{16a_{n-16}}{a_n}+\frac{8a_{n-8}^2}{a_n^2}+\frac{4a_{n-4}^4}{a_n^4}+\frac{2a_{n-2}^8}{a_n^8}+\frac{a_{n-1}^{16}}{a_n^{16}}+\frac{16a_{n-1}a_{n-15}}{a_n^2}+\frac{16a_{n-2}a_{n-14}}{a_n^2}+\frac{16a_{n-3}a_{n-13}}{a_n^2}+\frac{16a_{n-4}a_{n-12}}{a_n^2}+\frac{16a_{n-5}a_{n-11}}{a_n^2}+\frac{16a_{n-6}a_{n-10}}{a_n^2}+\frac{16a_{n-7}a_{n-9}}{a_n^2}-\frac{16a_{n-1}^2a_{n-14}}{a_n^3}-\frac{16a_{n-4}a_{n-6}^2}{a_n^3}-\frac{16a_{n-2}^2a_{n-12}}{a_n^3}-\frac{16a_{n-3}^2a_{n-10}}{a_n^3}-\frac{16a_{n-4}^2a_{n-8}}{a_n^3}-\frac{16a_{n-5}^2a_{n-6}}{a_n^3}-\frac{16a_{n-2}a_{n-7}^2}{a_n^3}+\frac{16a_{n-1}^3a_{n-13}}{a_n^4}+\frac{16a_{n-1}a_{n-5}^3}{a_n^4}+\frac{16a_{n-2}^3a_{n-10}}{a_n^4}+\frac{16a_{n-3}^3a_{n-7}}{a_n^4}-\frac{16a_{n-1}^4a_{n-12}}{a_n^5}-\frac{16a_{n-2}^4a_{n-8}}{a_n^5}-\frac{16a_{n-3}^4a_{n-4}}{a_n^5}+\frac{16a_{n-1}^5a_{n-11}}{a_n^6}+\frac{16a_{n-1}a_{n-3}^5}{a_n^6}+\frac{16a_{n-2}^5a_{n-6}}{a_n^6}-\frac{16a_{n-1}^6a_{n-10}}{a_n^7}-\frac{16a_{n-2}^6a_{n-4}}{a_n^7}+\frac{16a_{n-1}^7a_{n-9}}{a_n^8}-\frac{16a_{n-1}^8a_{n-8}}{a_n^9}+\frac{16a_{n-1}^9a_{n-7}}{a_n^{10}}-\frac{16a_{n-1}^{10}a_{n-6}}{a_n^{11}}+\frac{16a_{n-1}^{11}a_{n-5}}{a_n^{12}}-\frac{16a_{n-1}^{12}a_{n-4}}{a_n^{13}}+\frac{16a_{n-1}^{13}a_{n-3}}{a_n^{14}}-\frac{16a_{n-1}^{14}a_{n-2}}{a_n^{15}}+\frac{24a_{n-1}^2a_{n-7}^2}{a_n^4}+\frac{24a_{n-2}^2a_{n-6}^2}{a_n^4}+\frac{24a_{n-3}^2a_{n-5}^2}{a_n^4}-\frac{32a_{n-2}^2a_{n-4}^3}{a_n^5}-\frac{32a_{n-2}^3a_{n-5}^2}{a_n^5}+\frac{40a_{n-1}^4a_{n-6}^2}{a_n^6}+\frac{40a_{n-2}^2a_{n-3}^4}{a_n^6}+\frac{40a_{n-2}^4a_{n-4}^2}{a_n^6}-\frac{48a_{n-2}^5a_{n-3}^2}{a_n^7}+\frac{56a_{n-1}^6a_{n-5}^2}{a_n^8}-\frac{64a_{n-1}^2a_{n-2}^7}{a_n^9}+\frac{72a_{n-1}^8a_{n-4}^2}{a_n^{10}}+\frac{88a_{n-1}^{10}a_{n-3}^2}{a_n^{12}}+\frac{104a_{n-1}^{12}a_{n-2}^2}{a_n^{14}}-\frac{80a_{n-1}^4a_{n-4}^3}{a_n^7}+\frac{192a_{n-1}^7a_{n-3}^3}{a_n^{10}}-\frac{352a_{n-1}^{10}a_{n-2}^3}{a_n^{13}}+\frac{140a_{n-1}^4a_{n-3}^4}{a_n^8}+\frac{336a_{n-1}^4a_{n-2}^6}{a_n^{10}}+\frac{660a_{n-1}^8a_{n-2}^4}{a_n^{12}}-\frac{672a_{n-1}^6a_{n-2}^5}{a_n^{11}}-\frac{32a_{n-1}a_{n-2}a_{n-13}}{a_n^3}-\frac{32a_{n-1}a_{n-3}a_{n-12}}{a_n^3}-\frac{32a_{n-1}a_{n-4}a_{n-11}}{a_n^3}-\frac{32a_{n-1}a_{n-5}a_{n-10}}{a_n^3}-\frac{32a_{n-1}a_{n-6}a_{n-9}}{a_n^3}-\frac{32a_{n-1}a_{n-7}a_{n-8}}{a_n^3}-\frac{32a_{n-2}a_{n-3}a_{n-11}}{a_n^3}-\frac{32a_{n-2}a_{n-4}a_{n-10}}{a_n^3}-\frac{32a_{n-2}a_{n-5}a_{n-9}}{a_n^3}-\frac{32a_{n-2}a_{n-6}a_{n-8}}{a_n^3}-\frac{32a_{n-3}a_{n-4}a_{n-9}}{a_n^3}-\frac{32a_{n-3}a_{n-5}a_{n-8}}{a_n^3}-\frac{32a_{n-3}a_{n-6}a_{n-7}}{a_n^3}-\frac{32a_{n-4}a_{n-5}a_{n-7}}{a_n^3}+\frac{48a_{n-1}^2a_{n-2}a_{n-12}}{a_n^4}+\frac{48a_{n-1}^2a_{n-3}a_{n-11}}{a_n^4}+\frac{48a_{n-1}^2a_{n-4}a_{n-10}}{a_n^4}+\frac{48a_{n-1}^2a_{n-5}a_{n-9}}{a_n^4}+\frac{48a_{n-1}^2a_{n-6}a_{n-8}}{a_n^4}+\frac{48a_{n-1}a_{n-3}a_{n-6}^2}{a_n^4}+\frac{48a_{n-1}a_{n-2}^2a_{n-11}}{a_n^4}+\frac{48a_{n-1}a_{n-3}^2a_{n-9}}{a_n^4}+\frac{48a_{n-1}a_{n-4}^2a_{n-7}}{a_n^4}+\frac{48a_{n-2}^2a_{n-3}a_{n-9}}{a_n^4}+\frac{48a_{n-2}^2a_{n-4}a_{n-8}}{a_n^4}+\frac{48a_{n-2}^2a_{n-5}a_{n-7}}{a_n^4}+\frac{48a_{n-2}a_{n-3}^2a_{n-8}}{a_n^4}+\frac{48a_{n-3}^2a_{n-4}a_{n-6}}{a_n^4}+\frac{48a_{n-2}a_{n-4}^2a_{n-6}}{a_n^4}+$$

$$\frac{48a_{n-3}a_{n-4}^2a_{n-5}}{a_n^4}+\frac{48a_{n-2}a_{n-4}a_{n-5}^2}{a_n^4}-\frac{64a_{n-1}^3a_{n-2}a_{n-11}}{a_n^5}-\frac{64a_{n-1}^3a_{n-3}a_{n-10}}{a_n^5}-$$
$$\frac{64a_{n-1}^3a_{n-4}a_{n-9}}{a_n^5}-\frac{64a_{n-1}^3a_{n-5}a_{n-8}}{a_n^5}-\frac{64a_{n-1}^3a_{n-6}a_{n-7}}{a_n^5}-\frac{64a_{n-1}a_{n-3}a_{n-4}^3}{a_n^5}-$$
$$\frac{64a_{n-1}a_{n-2}^3a_{n-9}}{a_n^5}-\frac{64a_{n-1}a_{n-3}^3a_{n-6}}{a_n^5}-\frac{64a_{n-2}^3a_{n-3}a_{n-7}}{a_n^5}-\frac{64a_{n-2}^3a_{n-4}a_{n-6}}{a_n^5}-$$
$$\frac{64a_{n-2}a_{n-3}^3a_{n-5}}{a_n^5}+\frac{80a_{n-1}^4a_{n-2}a_{n-10}}{a_n^6}+\frac{80a_{n-1}^4a_{n-3}a_{n-9}}{a_n^6}+\frac{80a_{n-1}^4a_{n-4}a_{n-8}}{a_n^6}+$$
$$\frac{80a_{n-1}^4a_{n-5}a_{n-7}}{a_n^6}+\frac{80a_{n-1}a_{n-2}^4a_{n-7}}{a_n^6}+\frac{80a_{n-2}^4a_{n-3}a_{n-5}}{a_n^6}-\frac{96a_{n-1}^5a_{n-2}a_{n-9}}{a_n^7}-$$
$$\frac{96a_{n-1}^5a_{n-3}a_{n-8}}{a_n^7}-\frac{96a_{n-1}^5a_{n-4}a_{n-7}}{a_n^7}-\frac{96a_{n-1}^5a_{n-5}a_{n-6}}{a_n^7}-\frac{96a_{n-1}a_{n-2}^5a_{n-5}}{a_n^7}+$$
$$\frac{112a_{n-1}^6a_{n-2}a_{n-8}}{a_n^8}+\frac{112a_{n-1}^6a_{n-3}a_{n-7}}{a_n^8}+\frac{112a_{n-1}^6a_{n-4}a_{n-6}}{a_n^8}+\frac{112a_{n-1}a_{n-2}^6a_{n-3}}{a_n^8}-$$
$$\frac{128a_{n-1}^7a_{n-2}a_{n-7}}{a_n^9}-\frac{128a_{n-1}^7a_{n-3}a_{n-6}}{a_n^9}-\frac{128a_{n-1}^7a_{n-4}a_{n-5}}{a_n^9}+\frac{144a_{n-1}^8a_{n-2}a_{n-6}}{a_n^{10}}+$$
$$\frac{144a_{n-1}^8a_{n-3}a_{n-5}}{a_n^{10}}-\frac{160a_{n-1}^9a_{n-2}a_{n-5}}{a_n^{11}}-\frac{160a_{n-1}^9a_{n-3}a_{n-4}}{a_n^{11}}+\frac{176a_{n-1}^{10}a_{n-2}a_{n-4}}{a_n^{12}}-$$
$$\frac{192a_{n-1}^{11}a_{n-2}a_{n-3}}{a_n^{13}}-\frac{96a_{n-1}^2a_{n-2}^2a_{n-10}}{a_n^5}-\frac{96a_{n-1}^2a_{n-3}^2a_{n-8}}{a_n^5}-\frac{96a_{n-1}^2a_{n-4}^2a_{n-6}}{a_n^5}-$$
$$\frac{96a_{n-1}^2a_{n-2}a_{n-6}^2}{a_n^5}-\frac{96a_{n-1}^2a_{n-4}a_{n-5}^2}{a_n^5}-\frac{96a_{n-2}^2a_{n-3}^2a_{n-6}}{a_n^5}-\frac{96a_{n-2}a_{n-3}^2a_{n-4}^2}{a_n^5}+$$
$$\frac{160a_{n-1}^3a_{n-2}^2a_{n-9}}{a_n^6}+\frac{160a_{n-1}^3a_{n-3}^2a_{n-7}}{a_n^6}+\frac{160a_{n-1}^3a_{n-4}^2a_{n-5}}{a_n^6}+\frac{160a_{n-1}^3a_{n-3}a_{n-5}^2}{a_n^6}+$$
$$\frac{160a_{n-1}^2a_{n-2}a_{n-4}^3}{a_n^6}+\frac{160a_{n-1}^2a_{n-2}^3a_{n-8}}{a_n^6}+\frac{160a_{n-1}^2a_{n-3}^3a_{n-5}}{a_n^6}+\frac{160a_{n-2}^3a_{n-3}^2a_{n-4}}{a_n^6}-$$
$$\frac{240a_{n-1}^4a_{n-2}^2a_{n-8}}{a_n^7}-\frac{240a_{n-1}^4a_{n-3}^2a_{n-6}}{a_n^7}-\frac{240a_{n-1}^4a_{n-2}a_{n-5}^2}{a_n^7}-\frac{240a_{n-1}^2a_{n-2}a_{n-3}^4}{a_n^7}-$$
$$\frac{240a_{n-1}^2a_{n-2}^4a_{n-6}}{a_n^7}+\frac{336a_{n-1}^5a_{n-2}^2a_{n-7}}{a_n^8}+\frac{336a_{n-1}^5a_{n-3}^2a_{n-5}}{a_n^8}+\frac{336a_{n-1}^5a_{n-3}a_{n-4}^2}{a_n^8}+$$
$$\frac{336a_{n-1}^2a_{n-2}^5a_{n-4}}{a_n^8}-\frac{448a_{n-1}^6a_{n-2}^2a_{n-6}}{a_n^9}-\frac{448a_{n-1}^6a_{n-3}^2a_{n-4}}{a_n^9}-\frac{448a_{n-1}^6a_{n-2}a_{n-4}^2}{a_n^9}+$$
$$\frac{576a_{n-1}^7a_{n-2}^2a_{n-5}}{a_n^{10}}-\frac{720a_{n-1}^8a_{n-2}^2a_{n-4}}{a_n^{11}}-\frac{720a_{n-1}^8a_{n-2}a_{n-3}^2}{a_n^{11}}+\frac{880a_{n-1}^9a_{n-2}^2a_{n-3}}{a_n^{12}}-$$
$$\frac{320a_{n-1}^3a_{n-2}^3a_{n-7}}{a_n^7}-\frac{320a_{n-1}^3a_{n-3}^3a_{n-4}}{a_n^7}-\frac{320a_{n-1}a_{n-2}^3a_{n-3}^3}{a_n^7}+\frac{560a_{n-1}^4a_{n-2}^3a_{n-6}}{a_n^8}+$$
$$\frac{560a_{n-1}^3a_{n-2}^4a_{n-5}}{a_n^8}-\frac{896a_{n-1}^5a_{n-2}^3a_{n-5}}{a_n^9}-\frac{896a_{n-1}^5a_{n-2}a_{n-3}^3}{a_n^9}-\frac{896a_{n-1}^3a_{n-2}^5a_{n-3}}{a_n^9}+$$
$$\frac{1344a_{n-1}^6a_{n-2}^3a_{n-4}}{a_n^{10}}-\frac{1920a_{n-1}^7a_{n-2}^3a_{n-3}}{a_n^{11}}-\frac{1120a_{n-1}^4a_{n-2}^4a_{n-4}}{a_n^9}+\frac{2016a_{n-1}^5a_{n-2}^4a_{n-3}}{a_n^{10}}+$$
$$\frac{240a_{n-1}^2a_{n-2}^2a_{n-5}^2}{a_n^6}+\frac{240a_{n-1}^2a_{n-3}^2a_{n-4}^2}{a_n^6}-\frac{480a_{n-1}^2a_{n-2}^3a_{n-4}^2}{a_n^7}+\frac{840a_{n-1}^2a_{n-2}^4a_{n-3}^2}{a_n^8}+$$
$$\frac{840a_{n-1}^4a_{n-2}^2a_{n-4}^2}{a_n^8}+\frac{2016a_{n-1}^6a_{n-2}^2a_{n-3}^2}{a_n^{10}}+\frac{1120a_{n-1}^3a_{n-2}^2a_{n-3}^3}{a_n^8}-\frac{2240a_{n-1}^4a_{n-2}^3a_{n-3}^2}{a_n^9}+$$
$$\frac{96a_{n-1}a_{n-2}a_{n-3}a_{n-10}}{a_n^4}+\frac{96a_{n-1}a_{n-2}a_{n-4}a_{n-9}}{a_n^4}+\frac{96a_{n-1}a_{n-2}a_{n-5}a_{n-8}}{a_n^4}+$$
$$\frac{96a_{n-1}a_{n-2}a_{n-6}a_{n-7}}{a_n^4}+\frac{96a_{n-1}a_{n-3}a_{n-4}a_{n-8}}{a_n^4}+\frac{96a_{n-1}a_{n-3}a_{n-5}a_{n-7}}{a_n^4}+$$

$$\frac{96a_{n-1}a_{n-4}a_{n-5}a_{n-6}}{a_n^4}+\frac{96a_{n-2}a_{n-3}a_{n-4}a_{n-7}}{a_n^4}+\frac{96a_{n-2}a_{n-3}a_{n-5}a_{n-6}}{a_n^4}-$$
$$\frac{192a_{n-1}^2a_{n-2}a_{n-3}a_{n-9}}{a_n^5}-\frac{192a_{n-1}^2a_{n-2}a_{n-4}a_{n-8}}{a_n^5}-\frac{192a_{n-1}^2a_{n-2}a_{n-5}a_{n-7}}{a_n^5}-$$
$$\frac{192a_{n-1}^2a_{n-3}a_{n-4}a_{n-7}}{a_n^5}-\frac{192a_{n-1}^2a_{n-3}a_{n-5}a_{n-6}}{a_n^5}-\frac{192a_{n-1}a_{n-2}^2a_{n-3}a_{n-8}}{a_n^5}-$$
$$\frac{192a_{n-1}a_{n-2}^2a_{n-4}a_{n-7}}{a_n^5}-\frac{192a_{n-1}a_{n-2}^2a_{n-5}a_{n-6}}{a_n^5}-\frac{192a_{n-1}a_{n-2}a_{n-3}^2a_{n-7}}{a_n^5}-$$
$$\frac{192a_{n-1}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^5}-\frac{192a_{n-1}a_{n-2}a_{n-4}^2a_{n-5}}{a_n^5}-\frac{192a_{n-1}a_{n-2}a_{n-3}a_{n-5}^2}{a_n^5}-$$
$$\frac{192a_{n-2}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^5}+\frac{320a_{n-1}^3a_{n-2}a_{n-3}a_{n-8}}{a_n^6}+\frac{320a_{n-1}^3a_{n-2}a_{n-4}a_{n-7}}{a_n^6}+$$
$$\frac{320a_{n-1}^3a_{n-2}a_{n-5}a_{n-6}}{a_n^6}+\frac{320a_{n-1}^3a_{n-3}a_{n-4}a_{n-6}}{a_n^6}+\frac{320a_{n-1}a_{n-2}^3a_{n-3}a_{n-6}}{a_n^6}+$$
$$\frac{320a_{n-1}a_{n-2}^3a_{n-4}a_{n-5}}{a_n^6}+\frac{320a_{n-1}a_{n-2}a_{n-3}^3a_{n-4}}{a_n^6}-\frac{480a_{n-1}^4a_{n-2}a_{n-3}a_{n-7}}{a_n^7}-$$
$$\frac{480a_{n-1}^4a_{n-2}a_{n-4}a_{n-6}}{a_n^7}-\frac{480a_{n-1}^4a_{n-3}a_{n-4}a_{n-5}}{a_n^7}-\frac{480a_{n-1}a_{n-2}^4a_{n-3}a_{n-4}}{a_n^7}+$$
$$\frac{672a_{n-1}^5a_{n-2}a_{n-3}a_{n-6}}{a_n^8}+\frac{672a_{n-1}^5a_{n-2}a_{n-4}a_{n-5}}{a_n^8}-\frac{896a_{n-1}^6a_{n-2}a_{n-3}a_{n-5}}{a_n^9}+$$
$$\frac{1152a_{n-1}^7a_{n-2}a_{n-3}a_{n-4}}{a_n^{10}}+\frac{480a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-7}}{a_n^6}+\frac{480a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-6}}{a_n^6}+$$
$$\frac{480a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-6}}{a_n^6}+\frac{480a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^6}+\frac{480a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}^2}{a_n^6}-$$
$$\frac{960a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-6}}{a_n^7}-\frac{960a_{n-1}^3a_{n-2}^2a_{n-4}a_{n-5}}{a_n^7}-\frac{960a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-5}}{a_n^7}-$$
$$\frac{960a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}^2}{a_n^7}-\frac{960a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-5}}{a_n^7}+\frac{1680a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-5}}{a_n^8}+$$
$$\frac{1680a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-4}}{a_n^8}-\frac{2688a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-4}}{a_n^9}+\frac{2240a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-4}}{a_n^8}-$$
$$\frac{1440a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^7}-\frac{384a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^5}+\frac{960a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^6}$$

$$\sum_{k=1}^{n} z_k^{17}=-\frac{17a_{n-17}}{a_n}-\frac{a_{n-1}^{17}}{a_n^{17}}+\frac{17a_{n-1}a_{n-16}}{a_n^2}+\frac{17a_{n-2}a_{n-15}}{a_n^2}+\frac{17a_{n-3}a_{n-14}}{a_n^2}+$$
$$\frac{17a_{n-4}a_{n-13}}{a_n^2}+\frac{17a_{n-5}a_{n-12}}{a_n^2}+\frac{17a_{n-6}a_{n-11}}{a_n^2}+\frac{17a_{n-7}a_{n-10}}{a_n^2}+\frac{17a_{n-8}a_{n-9}}{a_n^2}-$$
$$\frac{17a_{n-1}^2a_{n-15}}{a_n^3}-\frac{17a_{n-1}a_{n-8}^2}{a_n^3}-\frac{17a_{n-5}a_{n-6}^2}{a_n^3}-\frac{17a_{n-2}^2a_{n-13}}{a_n^3}-\frac{17a_{n-3}^2a_{n-11}}{a_n^3}-$$
$$\frac{17a_{n-4}^2a_{n-9}}{a_n^3}-\frac{17a_{n-5}^2a_{n-7}}{a_n^3}-\frac{17a_{n-3}a_{n-7}^2}{a_n^3}+\frac{17a_{n-1}^3a_{n-14}}{a_n^4}+\frac{17a_{n-2}^3a_{n-11}}{a_n^4}+$$
$$\frac{17a_{n-3}^3a_{n-8}}{a_n^4}+\frac{17a_{n-4}^3a_{n-5}}{a_n^4}+\frac{17a_{n-2}a_{n-5}^3}{a_n^4}-\frac{17a_{n-1}^4a_{n-13}}{a_n^5}-\frac{17a_{n-1}a_{n-4}^4}{a_n^5}-$$
$$\frac{17a_{n-2}^4a_{n-9}}{a_n^5}-\frac{17a_{n-3}^4a_{n-5}}{a_n^5}+\frac{17a_{n-1}^5a_{n-12}}{a_n^6}+\frac{17a_{n-2}a_{n-3}^5}{a_n^6}+\frac{17a_{n-2}^5a_{n-7}}{a_n^6}-$$
$$\frac{17a_{n-1}^6a_{n-11}}{a_n^6}-\frac{17a_{n-2}^6a_{n-5}}{a_n^7}+\frac{17a_{n-1}^7a_{n-10}}{a_n^8}+\frac{17a_{n-2}^7a_{n-3}}{a_n^8}-\frac{17a_{n-1}^8a_{n-9}}{a_n^9}-$$
$$\frac{17a_{n-1}a_{n-2}^8}{a_n^9}+\frac{17a_{n-1}^9a_{n-8}}{a_n^{10}}-\frac{17a_{n-1}^{10}a_{n-7}}{a_n^{11}}+\frac{17a_{n-1}^{11}a_{n-6}}{a_n^{12}}-\frac{17a_{n-1}^{12}a_{n-5}}{a_n^{13}}+$$

$$\frac{17a_{n-1}^{13}a_{n-4}}{a_n^{14}} - \frac{17a_{n-1}^{14}a_{n-3}}{a_n^{15}} + \frac{17a_{n-1}^{15}a_{n-2}}{a_n^{16}} - \frac{34a_{n-1}^{3}a_{n-7}^{2}}{a_n^{5}} - \frac{34a_{n-3}^{3}a_{n-4}^{2}}{a_n^{5}} -$$
$$\frac{34a_{n-1}^{2}a_{n-5}^{3}}{a_n^{5}} - \frac{51a_{n-1}^{5}a_{n-6}^{2}}{a_n^{7}} - \frac{51a_{n-1}^{2}a_{n-3}^{5}}{a_n^{7}} - \frac{68a_{n-1}^{7}a_{n-5}^{2}}{a_n^{9}} - \frac{85a_{n-1}^{9}a_{n-4}^{2}}{a_n^{11}} -$$
$$\frac{102a_{n-1}^{11}a_{n-3}^{2}}{a_n^{13}} - \frac{119a_{n-1}^{13}a_{n-2}^{2}}{a_n^{15}} - \frac{85a_{n-2}^{4}a_{n-3}^{3}}{a_n^{7}} + \frac{119a_{n-1}^{5}a_{n-4}^{3}}{a_n^{8}} + \frac{204a_{n-1}^{3}a_{n-2}^{7}}{a_n^{10}} -$$
$$\frac{255a_{n-1}^{8}a_{n-3}^{3}}{a_n^{11}} + \frac{442a_{n-1}^{11}a_{n-2}^{3}}{a_n^{14}} - \frac{238a_{n-1}^{5}a_{n-3}^{4}}{a_n^{9}} - \frac{935a_{n-1}^{9}a_{n-2}^{4}}{a_n^{13}} - \frac{714a_{n-1}^{5}a_{n-2}^{6}}{a_n^{11}} +$$
$$\frac{1122a_{n-1}^{7}a_{n-2}^{5}}{a_n^{12}} - \frac{34a_{n-1}a_{n-2}a_{n-14}}{a_n^{3}} - \frac{34a_{n-1}a_{n-3}a_{n-13}}{a_n^{3}} - \frac{34a_{n-1}a_{n-4}a_{n-12}}{a_n^{3}} -$$
$$\frac{34a_{n-1}a_{n-5}a_{n-11}}{a_n^{3}} - \frac{34a_{n-1}a_{n-6}a_{n-10}}{a_n^{3}} - \frac{34a_{n-1}a_{n-7}a_{n-9}}{a_n^{3}} - \frac{34a_{n-2}a_{n-3}a_{n-12}}{a_n^{3}} -$$
$$\frac{34a_{n-2}a_{n-4}a_{n-11}}{a_n^{3}} - \frac{34a_{n-2}a_{n-5}a_{n-10}}{a_n^{3}} - \frac{34a_{n-2}a_{n-6}a_{n-9}}{a_n^{3}} - \frac{34a_{n-2}a_{n-7}a_{n-8}}{a_n^{3}} -$$
$$\frac{34a_{n-3}a_{n-4}a_{n-10}}{a_n^{3}} - \frac{34a_{n-3}a_{n-5}a_{n-9}}{a_n^{3}} - \frac{34a_{n-3}a_{n-6}a_{n-8}}{a_n^{3}} - \frac{34a_{n-4}a_{n-5}a_{n-8}}{a_n^{3}} -$$
$$\frac{34a_{n-4}a_{n-6}a_{n-7}}{a_n^{3}} + \frac{51a_{n-1}^{2}a_{n-2}a_{n-13}}{a_n^{4}} + \frac{51a_{n-1}^{2}a_{n-3}a_{n-12}}{a_n^{4}} + \frac{51a_{n-1}^{2}a_{n-4}a_{n-11}}{a_n^{4}} +$$
$$\frac{51a_{n-1}^{2}a_{n-5}a_{n-10}}{a_n^{4}} + \frac{51a_{n-1}^{2}a_{n-6}a_{n-9}}{a_n^{4}} + \frac{51a_{n-1}^{2}a_{n-7}a_{n-8}}{a_n^{4}} + \frac{51a_{n-1}a_{n-4}a_{n-6}^{2}}{a_n^{4}} +$$
$$\frac{51a_{n-1}a_{n-2}^{2}a_{n-12}}{a_n^{4}} + \frac{51a_{n-1}a_{n-3}^{2}a_{n-10}}{a_n^{4}} + \frac{51a_{n-1}a_{n-4}^{2}a_{n-8}}{a_n^{4}} + \frac{51a_{n-1}a_{n-5}^{2}a_{n-6}}{a_n^{4}} +$$
$$\frac{51a_{n-1}a_{n-2}a_{n-7}^{2}}{a_n^{4}} + \frac{51a_{n-2}^{2}a_{n-3}a_{n-10}}{a_n^{4}} + \frac{51a_{n-2}^{2}a_{n-4}a_{n-9}}{a_n^{4}} + \frac{51a_{n-2}^{2}a_{n-5}a_{n-8}}{a_n^{4}} +$$
$$\frac{51a_{n-2}^{2}a_{n-6}a_{n-7}}{a_n^{4}} + \frac{51a_{n-2}a_{n-3}^{2}a_{n-9}}{a_n^{4}} + \frac{51a_{n-3}^{2}a_{n-4}a_{n-7}}{a_n^{4}} + \frac{51a_{n-3}^{2}a_{n-5}a_{n-6}}{a_n^{4}} +$$
$$\frac{51a_{n-2}a_{n-4}^{2}a_{n-7}}{a_n^{4}} + \frac{51a_{n-3}a_{n-4}^{2}a_{n-6}}{a_n^{4}} + \frac{51a_{n-3}a_{n-4}a_{n-5}^{2}}{a_n^{4}} - \frac{68a_{n-1}^{3}a_{n-2}a_{n-12}}{a_n^{5}} -$$
$$\frac{68a_{n-1}^{3}a_{n-3}a_{n-11}}{a_n^{5}} - \frac{68a_{n-1}^{3}a_{n-4}a_{n-10}}{a_n^{5}} - \frac{68a_{n-1}^{3}a_{n-5}a_{n-9}}{a_n^{5}} - \frac{68a_{n-1}^{3}a_{n-6}a_{n-8}}{a_n^{5}} -$$
$$\frac{68a_{n-1}a_{n-2}^{3}a_{n-10}}{a_n^{5}} - \frac{68a_{n-1}a_{n-3}^{3}a_{n-7}}{a_n^{5}} - \frac{68a_{n-1}a_{n-2}a_{n-4}^{3}}{a_n^{5}} - \frac{68a_{n-2}^{3}a_{n-3}a_{n-8}}{a_n^{5}} -$$
$$\frac{68a_{n-2}^{3}a_{n-4}a_{n-7}}{a_n^{5}} - \frac{68a_{n-2}^{3}a_{n-5}a_{n-6}}{a_n^{5}} - \frac{68a_{n-2}a_{n-2}a_{n-3}^{3}a_{n-6}}{a_n^{5}} - \frac{68a_{n-2}a_{n-3}a_{n-4}^{3}}{a_n^{5}} +$$
$$\frac{85a_{n-1}^{4}a_{n-2}a_{n-11}}{a_n^{6}} + \frac{85a_{n-1}^{4}a_{n-3}a_{n-10}}{a_n^{6}} + \frac{85a_{n-1}^{4}a_{n-4}a_{n-9}}{a_n^{6}} + \frac{85a_{n-1}^{4}a_{n-5}a_{n-8}}{a_n^{6}} +$$
$$\frac{85a_{n-1}^{4}a_{n-6}a_{n-7}}{a_n^{6}} + \frac{85a_{n-1}a_{n-2}^{4}a_{n-8}}{a_n^{6}} + \frac{85a_{n-1}a_{n-3}^{4}a_{n-4}}{a_n^{6}} + \frac{85a_{n-2}^{4}a_{n-3}a_{n-6}}{a_n^{6}} +$$
$$\frac{85a_{n-2}^{4}a_{n-4}a_{n-5}}{a_n^{6}} - \frac{102a_{n-1}^{5}a_{n-2}a_{n-10}}{a_n^{7}} - \frac{102a_{n-1}^{5}a_{n-3}a_{n-9}}{a_n^{7}} - \frac{102a_{n-1}^{5}a_{n-4}a_{n-8}}{a_n^{7}} -$$
$$\frac{102a_{n-1}^{5}a_{n-5}a_{n-7}}{a_n^{7}} - \frac{102a_{n-1}a_{n-2}^{5}a_{n-6}}{a_n^{7}} - \frac{102a_{n-2}^{5}a_{n-3}a_{n-4}}{a_n^{7}} + \frac{119a_{n-1}^{6}a_{n-2}a_{n-9}}{a_n^{8}} +$$
$$\frac{119a_{n-1}^{6}a_{n-3}a_{n-8}}{a_n^{8}} + \frac{119a_{n-1}^{6}a_{n-4}a_{n-7}}{a_n^{8}} + \frac{119a_{n-1}^{6}a_{n-5}a_{n-6}}{a_n^{8}} + \frac{119a_{n-1}a_{n-2}^{6}a_{n-4}}{a_n^{8}} -$$
$$\frac{136a_{n-1}^{7}a_{n-2}a_{n-8}}{a_n^{9}} - \frac{136a_{n-1}^{7}a_{n-3}a_{n-7}}{a_n^{9}} - \frac{136a_{n-1}^{7}a_{n-4}a_{n-6}}{a_n^{9}} + \frac{153a_{n-1}^{8}a_{n-2}a_{n-7}}{a_n^{10}} +$$
$$\frac{153a_{n-1}^{8}a_{n-3}a_{n-6}}{a_n^{10}} + \frac{153a_{n-1}^{8}a_{n-4}a_{n-5}}{a_n^{10}} - \frac{170a_{n-1}^{9}a_{n-2}a_{n-6}}{a_n^{11}} - \frac{170a_{n-1}^{9}a_{n-3}a_{n-5}}{a_n^{11}} +$$

$$\frac{187a_{n-1}^{10}a_{n-2}a_{n-5}}{a_n^{12}}+\frac{187a_{n-1}^{10}a_{n-3}a_{n-4}}{a_n^{12}}-\frac{204a_{n-1}^{11}a_{n-2}a_{n-4}}{a_n^{13}}+\frac{221a_{n-1}^{12}a_{n-2}a_{n-3}}{a_n^{14}}-$$
$$\frac{102a_{n-1}^{2}a_{n-3}a_{n-6}^{2}}{a_n^{5}}-\frac{102a_{n-1}^{2}a_{n-2}^{2}a_{n-11}}{a_n^{5}}-\frac{102a_{n-1}^{2}a_{n-3}^{2}a_{n-9}}{a_n^{5}}-\frac{102a_{n-1}^{2}a_{n-4}^{2}a_{n-7}}{a_n^{5}}-$$
$$\frac{102a_{n-1}a_{n-2}^{2}a_{n-6}^{2}}{a_n^{5}}-\frac{102a_{n-1}a_{n-3}^{2}a_{n-5}^{2}}{a_n^{5}}-\frac{102a_{n-2}^{2}a_{n-3}^{2}a_{n-7}}{a_n^{5}}-\frac{102a_{n-2}^{2}a_{n-4}^{2}a_{n-5}}{a_n^{5}}-$$
$$\frac{102a_{n-2}^{2}a_{n-3}a_{n-5}^{2}}{a_n^{5}}+\frac{170a_{n-1}^{3}a_{n-2}^{2}a_{n-10}}{a_n^{6}}+\frac{170a_{n-1}^{3}a_{n-3}^{2}a_{n-8}}{a_n^{6}}+\frac{170a_{n-1}^{3}a_{n-4}^{2}a_{n-6}}{a_n^{6}}+$$
$$\frac{170a_{n-1}^{3}a_{n-4}a_{n-5}^{2}}{a_n^{6}}+\frac{170a_{n-1}^{3}a_{n-2}a_{n-6}^{2}}{a_n^{6}}+\frac{170a_{n-1}a_{n-2}^{2}a_{n-4}^{3}}{a_n^{6}}+\frac{170a_{n-1}a_{n-2}^{3}a_{n-5}^{2}}{a_n^{6}}+$$
$$\frac{170a_{n-1}^{2}a_{n-3}a_{n-4}^{3}}{a_n^{6}}+\frac{170a_{n-1}^{2}a_{n-2}^{3}a_{n-9}}{a_n^{6}}+\frac{170a_{n-1}^{2}a_{n-3}^{3}a_{n-6}}{a_n^{6}}+\frac{170a_{n-2}^{3}a_{n-3}^{2}a_{n-5}}{a_n^{6}}+$$
$$\frac{170a_{n-2}^{3}a_{n-3}a_{n-4}^{2}}{a_n^{6}}+\frac{170a_{n-2}^{2}a_{n-3}^{3}a_{n-4}}{a_n^{6}}-\frac{255a_{n-1}^{4}a_{n-2}^{2}a_{n-9}}{a_n^{7}}-\frac{255a_{n-1}^{4}a_{n-3}^{2}a_{n-7}}{a_n^{7}}-$$
$$\frac{255a_{n-1}^{4}a_{n-4}^{2}a_{n-5}}{a_n^{7}}-\frac{255a_{n-1}^{4}a_{n-3}a_{n-5}^{2}}{a_n^{7}}-\frac{255a_{n-1}^{2}a_{n-2}^{4}a_{n-7}}{a_n^{7}}-\frac{255a_{n-1}a_{n-2}^{2}a_{n-3}^{4}}{a_n^{7}}-$$
$$\frac{255a_{n-1}a_{n-2}^{4}a_{n-4}^{2}}{a_n^{7}}+\frac{357a_{n-1}^{5}a_{n-2}^{2}a_{n-8}}{a_n^{8}}+\frac{357a_{n-1}^{5}a_{n-3}^{2}a_{n-6}}{a_n^{8}}+\frac{357a_{n-1}^{5}a_{n-2}a_{n-5}^{2}}{a_n^{8}}+$$
$$\frac{357a_{n-1}^{2}a_{n-2}^{5}a_{n-5}}{a_n^{8}}+\frac{357a_{n-1}a_{n-2}^{5}a_{n-3}^{2}}{a_n^{8}}-\frac{476a_{n-1}^{6}a_{n-2}^{2}a_{n-7}}{a_n^{9}}-\frac{476a_{n-1}^{6}a_{n-3}^{2}a_{n-5}}{a_n^{9}}-$$
$$\frac{476a_{n-1}^{6}a_{n-3}a_{n-4}^{2}}{a_n^{9}}-\frac{476a_{n-1}^{2}a_{n-2}^{6}a_{n-3}}{a_n^{9}}+\frac{612a_{n-1}^{7}a_{n-2}^{2}a_{n-6}}{a_n^{10}}+\frac{612a_{n-1}^{7}a_{n-3}^{2}a_{n-4}}{a_n^{10}}+$$
$$\frac{612a_{n-1}^{7}a_{n-2}a_{n-4}^{2}}{a_n^{10}}-\frac{765a_{n-1}^{8}a_{n-2}^{2}a_{n-5}}{a_n^{11}}+\frac{935a_{n-1}^{9}a_{n-2}^{2}a_{n-4}}{a_n^{12}}+\frac{935a_{n-1}^{9}a_{n-2}a_{n-3}^{2}}{a_n^{12}}-$$
$$\frac{1122a_{n-1}^{10}a_{n-2}^{2}a_{n-3}}{a_n^{13}}-\frac{340a_{n-1}^{3}a_{n-2}a_{n-4}^{3}}{a_n^{7}}-\frac{340a_{n-1}^{3}a_{n-2}^{3}a_{n-8}}{a_n^{7}}-\frac{340a_{n-1}^{3}a_{n-3}^{3}a_{n-5}}{a_n^{7}}+$$
$$\frac{595a_{n-1}^{4}a_{n-2}^{3}a_{n-7}}{a_n^{8}}+\frac{595a_{n-1}^{4}a_{n-3}^{3}a_{n-4}}{a_n^{8}}+\frac{595a_{n-1}^{3}a_{n-2}a_{n-3}^{4}}{a_n^{8}}+\frac{595a_{n-1}^{3}a_{n-2}^{4}a_{n-6}}{a_n^{8}}-$$
$$\frac{952a_{n-1}^{5}a_{n-2}^{3}a_{n-6}}{a_n^{9}}-\frac{952a_{n-1}^{3}a_{n-2}^{5}a_{n-4}}{a_n^{9}}+\frac{1428a_{n-1}^{6}a_{n-2}^{3}a_{n-5}}{a_n^{10}}+\frac{1428a_{n-1}^{6}a_{n-2}a_{n-3}^{3}}{a_n^{10}}-$$
$$\frac{2040a_{n-1}^{7}a_{n-2}^{3}a_{n-4}}{a_n^{11}}+\frac{2805a_{n-1}^{8}a_{n-2}^{3}a_{n-3}}{a_n^{12}}-\frac{1190a_{n-1}^{4}a_{n-2}^{4}a_{n-5}}{a_n^{9}}+\frac{2142a_{n-1}^{5}a_{n-2}^{4}a_{n-4}}{a_n^{10}}+$$
$$\frac{2142a_{n-1}^{4}a_{n-2}^{5}a_{n-3}}{a_n^{10}}-\frac{3570a_{n-1}^{6}a_{n-2}^{4}a_{n-3}}{a_n^{11}}-\frac{510a_{n-1}^{3}a_{n-2}^{2}a_{n-5}^{2}}{a_n^{7}}-\frac{510a_{n-1}^{3}a_{n-3}^{2}a_{n-4}^{2}}{a_n^{7}}+$$
$$\frac{1190a_{n-1}^{3}a_{n-2}^{3}a_{n-4}^{2}}{a_n^{8}}+\frac{1190a_{n-1}^{2}a_{n-2}^{3}a_{n-3}^{3}}{a_n^{8}}-\frac{2380a_{n-1}^{3}a_{n-2}^{4}a_{n-3}^{2}}{a_n^{9}}-\frac{1428a_{n-1}^{5}a_{n-2}^{2}a_{n-4}^{2}}{a_n^{9}}-$$
$$\frac{3060a_{n-1}^{7}a_{n-2}^{2}a_{n-3}^{2}}{a_n^{11}}-\frac{2380a_{n-1}^{4}a_{n-2}^{2}a_{n-3}^{3}}{a_n^{9}}+\frac{4284a_{n-1}^{5}a_{n-2}^{3}a_{n-3}^{2}}{a_n^{10}}+$$
$$\frac{102a_{n-1}a_{n-2}a_{n-3}a_{n-11}}{a_n^{4}}+\frac{102a_{n-1}a_{n-2}a_{n-4}a_{n-10}}{a_n^{4}}+\frac{102a_{n-1}a_{n-2}a_{n-5}a_{n-9}}{a_n^{4}}+$$
$$\frac{102a_{n-1}a_{n-2}a_{n-6}a_{n-8}}{a_n^{4}}+\frac{102a_{n-1}a_{n-3}a_{n-4}a_{n-9}}{a_n^{4}}+\frac{102a_{n-1}a_{n-3}a_{n-5}a_{n-8}}{a_n^{4}}+$$
$$\frac{102a_{n-1}a_{n-3}a_{n-6}a_{n-7}}{a_n^{4}}+\frac{102a_{n-1}a_{n-4}a_{n-5}a_{n-7}}{a_n^{4}}+\frac{102a_{n-2}a_{n-3}a_{n-4}a_{n-8}}{a_n^{4}}+$$
$$\frac{102a_{n-2}a_{n-3}a_{n-5}a_{n-7}}{a_n^{4}}+\frac{102a_{n-2}a_{n-4}a_{n-5}a_{n-6}}{a_n^{4}}-\frac{204a_{n-1}^{2}a_{n-2}a_{n-3}a_{n-10}}{a_n^{5}}-$$
$$\frac{204a_{n-1}^{2}a_{n-2}a_{n-4}a_{n-9}}{a_n^{5}}-\frac{204a_{n-1}^{2}a_{n-2}a_{n-5}a_{n-8}}{a_n^{5}}-\frac{204a_{n-1}^{2}a_{n-2}a_{n-6}a_{n-7}}{a_n^{5}}-$$

$$\frac{204a_{n-1}^2a_{n-3}a_{n-4}a_{n-8}}{a_n^5} - \frac{204a_{n-1}^2a_{n-3}a_{n-5}a_{n-7}}{a_n^5} - \frac{204a_{n-1}^2a_{n-4}a_{n-5}a_{n-6}}{a_n^5} -$$
$$\frac{204a_{n-1}a_{n-2}^2a_{n-3}a_{n-9}}{a_n^5} - \frac{204a_{n-1}a_{n-2}^2a_{n-4}a_{n-8}}{a_n^5} - \frac{204a_{n-1}a_{n-2}^2a_{n-5}a_{n-7}}{a_n^5} -$$
$$\frac{204a_{n-1}a_{n-2}a_{n-3}^2a_{n-8}}{a_n^5} - \frac{204a_{n-1}a_{n-3}^2a_{n-4}a_{n-6}}{a_n^5} - \frac{204a_{n-1}a_{n-2}a_{n-4}^2a_{n-6}}{a_n^5} -$$
$$\frac{204a_{n-1}a_{n-3}a_{n-4}^2a_{n-5}}{a_n^5} - \frac{204a_{n-1}a_{n-2}a_{n-4}a_{n-5}^2}{a_n^5} - \frac{204a_{n-2}^2a_{n-3}a_{n-4}a_{n-6}}{a_n^5} -$$
$$\frac{204a_{n-2}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^5} + \frac{340a_{n-1}^3a_{n-2}a_{n-3}a_{n-9}}{a_n^6} + \frac{340a_{n-1}^3a_{n-2}a_{n-4}a_{n-8}}{a_n^6} +$$
$$\frac{340a_{n-1}^3a_{n-2}a_{n-5}a_{n-7}}{a_n^6} + \frac{340a_{n-1}^3a_{n-3}a_{n-4}a_{n-7}}{a_n^6} + \frac{340a_{n-1}^3a_{n-3}a_{n-5}a_{n-6}}{a_n^6} +$$
$$\frac{340a_{n-1}a_{n-2}^3a_{n-3}a_{n-7}}{a_n^6} + \frac{340a_{n-1}a_{n-2}^3a_{n-4}a_{n-6}}{a_n^6} + \frac{340a_{n-1}a_{n-2}a_{n-3}^3a_{n-5}}{a_n^6} -$$
$$\frac{510a_{n-1}^4a_{n-2}a_{n-3}a_{n-8}}{a_n^7} - \frac{510a_{n-1}^4a_{n-2}a_{n-4}a_{n-7}}{a_n^7} - \frac{510a_{n-1}^4a_{n-2}a_{n-5}a_{n-6}}{a_n^7} -$$
$$\frac{510a_{n-1}^4a_{n-3}a_{n-4}a_{n-6}}{a_n^7} - \frac{510a_{n-1}a_{n-2}^4a_{n-3}a_{n-5}}{a_n^7} + \frac{714a_{n-1}^5a_{n-2}a_{n-3}a_{n-7}}{a_n^8} +$$
$$\frac{714a_{n-1}^5a_{n-2}a_{n-4}a_{n-6}}{a_n^8} + \frac{714a_{n-1}^5a_{n-3}a_{n-4}a_{n-5}}{a_n^8} - \frac{952a_{n-1}^6a_{n-2}a_{n-3}a_{n-6}}{a_n^9} -$$
$$\frac{952a_{n-1}^6a_{n-2}a_{n-4}a_{n-5}}{a_n^9} + \frac{1224a_{n-1}^7a_{n-2}a_{n-3}a_{n-5}}{a_n^{10}} - \frac{1530a_{n-1}^8a_{n-2}a_{n-3}a_{n-4}}{a_n^{11}} +$$
$$\frac{510a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-8}}{a_n^6} + \frac{510a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-7}}{a_n^6} + \frac{510a_{n-1}^2a_{n-2}^2a_{n-5}a_{n-6}}{a_n^6} +$$
$$\frac{510a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-7}}{a_n^6} + \frac{510a_{n-1}^2a_{n-3}^2a_{n-4}a_{n-5}}{a_n^6} + \frac{510a_{n-1}^2a_{n-2}a_{n-4}^2a_{n-5}}{a_n^6} +$$
$$\frac{510a_{n-1}^2a_{n-2}a_{n-3}a_{n-5}^2}{a_n^6} + \frac{510a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-6}}{a_n^6} + \frac{510a_{n-1}a_{n-2}a_{n-3}^2a_{n-4}^2}{a_n^6} -$$
$$\frac{1020a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-7}}{a_n^7} - \frac{1020a_{n-1}^3a_{n-2}^2a_{n-4}a_{n-6}}{a_n^7} - \frac{1020a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-6}}{a_n^7} -$$
$$\frac{1020a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-6}}{a_n^7} - \frac{1020a_{n-1}^2a_{n-2}^3a_{n-4}a_{n-5}}{a_n^7} - \frac{1020a_{n-1}^2a_{n-2}a_{n-3}^3a_{n-4}}{a_n^7} -$$
$$\frac{1020a_{n-1}a_{n-2}^3a_{n-3}^2a_{n-4}}{a_n^7} + \frac{1785a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-6}}{a_n^8} + \frac{1785a_{n-1}^4a_{n-2}^2a_{n-4}a_{n-5}}{a_n^8} +$$
$$\frac{1785a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-5}}{a_n^8} + \frac{1785a_{n-1}^4a_{n-2}a_{n-3}a_{n-4}^2}{a_n^8} + \frac{1785a_{n-1}^2a_{n-2}^4a_{n-3}a_{n-4}}{a_n^8} -$$
$$\frac{2856a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-5}}{a_n^9} - \frac{2856a_{n-1}^5a_{n-2}a_{n-3}^2a_{n-4}}{a_n^9} + \frac{4284a_{n-1}^6a_{n-2}^2a_{n-3}a_{n-4}}{a_n^{10}} +$$
$$\frac{2380a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-5}}{a_n^8} - \frac{4760a_{n-1}^4a_{n-2}^3a_{n-3}a_{n-4}}{a_n^9} - \frac{1530a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^7} -$$
$$\frac{1530a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}^2}{a_n^7} + \frac{3570a_{n-1}^3a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^8} - \frac{408a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-7}}{a_n^5} -$$
$$\frac{408a_{n-1}a_{n-2}a_{n-3}a_{n-5}a_{n-6}}{a_n^5} + \frac{1020a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^6} +$$
$$\frac{1020a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^6} - \frac{2040a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^7}$$

$$\sum_{k=1}^{n} z_k^{18} = -\frac{18a_{n-18}}{a_n} + \frac{9a_{n-9}^2}{a_n^2} - \frac{6a_{n-6}^3}{a_n^3} + \frac{3a_{n-3}^6}{a_n^6} - \frac{2a_{n-2}^9}{a_n^9} + \frac{a_{n-1}^{18}}{a_n^{18}} + \frac{18a_{n-1}a_{n-17}}{a_n^2} +$$
$$\frac{18a_{n-2}a_{n-16}}{a_n^2} + \frac{18a_{n-3}a_{n-15}}{a_n^2} + \frac{18a_{n-4}a_{n-14}}{a_n^2} + \frac{18a_{n-5}a_{n-13}}{a_n^2} + \frac{18a_{n-6}a_{n-12}}{a_n^2} +$$
$$\frac{18a_{n-7}a_{n-11}}{a_n^2} + \frac{18a_{n-8}a_{n-10}}{a_n^2} - \frac{18a_{n-1}^2a_{n-16}}{a_n^3} - \frac{18a_{n-2}a_{n-8}^2}{a_n^3} - \frac{18a_{n-2}^2a_{n-14}}{a_n^3} -$$
$$\frac{18a_{n-3}^2a_{n-12}}{a_n^3} - \frac{18a_{n-4}^2a_{n-10}}{a_n^3} - \frac{18a_{n-5}^2a_{n-8}}{a_n^3} - \frac{18a_{n-4}a_{n-7}^2}{a_n^3} + \frac{18a_{n-1}^3a_{n-15}}{a_n^4} +$$
$$\frac{18a_{n-2}^3a_{n-12}}{a_n^4} + \frac{18a_{n-3}^3a_{n-9}}{a_n^4} + \frac{18a_{n-4}^3a_{n-6}}{a_n^4} + \frac{18a_{n-3}a_{n-5}^3}{a_n^4} - \frac{18a_{n-1}^4a_{n-14}}{a_n^5} -$$
$$\frac{18a_{n-2}a_{n-4}^4}{a_n^5} - \frac{18a_{n-2}^4a_{n-10}}{a_n^5} - \frac{18a_{n-3}^4a_{n-6}}{a_n^5} + \frac{18a_{n-1}^5a_{n-13}}{a_n^6} + \frac{18a_{n-2}^5a_{n-8}}{a_n^6} -$$
$$\frac{18a_{n-1}^6a_{n-12}}{a_n^7} - \frac{18a_{n-2}^6a_{n-6}}{a_n^7} + \frac{18a_{n-1}^7a_{n-11}}{a_n^8} + \frac{18a_{n-2}^7a_{n-4}}{a_n^8} - \frac{18a_{n-1}^8a_{n-10}}{a_n^9} +$$
$$\frac{18a_{n-1}^9a_{n-9}}{a_n^{10}} - \frac{18a_{n-1}^{10}a_{n-8}}{a_n^{11}} + \frac{18a_{n-1}^{11}a_{n-7}}{a_n^{12}} - \frac{18a_{n-1}^{12}a_{n-6}}{a_n^{13}} + \frac{18a_{n-1}^{13}a_{n-5}}{a_n^{14}} -$$
$$\frac{18a_{n-1}^{14}a_{n-4}}{a_n^{15}} + \frac{18a_{n-1}^{15}a_{n-3}}{a_n^{16}} - \frac{18a_{n-1}^{16}a_{n-2}}{a_n^{17}} + \frac{27a_{n-1}^2a_{n-8}^2}{a_n^4} + \frac{27a_{n-2}^2a_{n-7}^2}{a_n^4} +$$
$$\frac{27a_{n-3}^2a_{n-6}^2}{a_n^4} + \frac{27a_{n-4}^2a_{n-5}^2}{a_n^4} - \frac{36a_{n-2}^3a_{n-6}^2}{a_n^5} - \frac{36a_{n-3}^2a_{n-4}^3}{a_n^5} + \frac{45a_{n-1}^4a_{n-7}^2}{a_n^6} +$$
$$\frac{45a_{n-1}^2a_{n-4}^4}{a_n^6} + \frac{45a_{n-2}^4a_{n-5}^2}{a_n^6} - \frac{54a_{n-2}^5a_{n-4}^2}{a_n^7} + \frac{63a_{n-1}^6a_{n-6}^2}{a_n^8} + \frac{63a_{n-2}^6a_{n-3}^2}{a_n^8} +$$
$$\frac{81a_{n-1}^8a_{n-5}^2}{a_n^{10}} + \frac{81a_{n-1}^2a_{n-2}^8}{a_n^{10}} + \frac{99a_{n-1}^{10}a_{n-4}^2}{a_n^{12}} + \frac{117a_{n-1}^{12}a_{n-3}^2}{a_n^{14}} + \frac{135a_{n-1}^{14}a_{n-2}^2}{a_n^{16}} +$$
$$\frac{60a_{n-1}^3a_{n-5}^3}{a_n^6} + \frac{60a_{n-2}^3a_{n-4}^3}{a_n^6} - \frac{90a_{n-2}^3a_{n-3}^4}{a_n^7} + \frac{126a_{n-1}^3a_{n-3}^5}{a_n^8} - \frac{168a_{n-1}^6a_{n-4}^3}{a_n^9} +$$
$$\frac{330a_{n-1}^9a_{n-3}^3}{a_n^{12}} - \frac{546a_{n-1}^{12}a_{n-2}^3}{a_n^{15}} + \frac{378a_{n-1}^6a_{n-3}^4}{a_n^{10}} - \frac{540a_{n-1}^4a_{n-2}^7}{a_n^{11}} + \frac{1287a_{n-1}^{10}a_{n-2}^4}{a_n^{14}} -$$
$$\frac{1782a_{n-1}^8a_{n-2}^5}{a_n^{13}} + \frac{1386a_{n-1}^6a_{n-2}^6}{a_n^{12}} - \frac{36a_{n-1}a_{n-2}a_{n-15}}{a_n^3} - \frac{36a_{n-1}a_{n-3}a_{n-14}}{a_n^3} -$$
$$\frac{36a_{n-1}a_{n-4}a_{n-13}}{a_n^3} - \frac{36a_{n-1}a_{n-5}a_{n-12}}{a_n^3} - \frac{36a_{n-1}a_{n-6}a_{n-11}}{a_n^3} - \frac{36a_{n-1}a_{n-7}a_{n-10}}{a_n^3} -$$
$$\frac{36a_{n-1}a_{n-8}a_{n-9}}{a_n^3} - \frac{36a_{n-2}a_{n-3}a_{n-13}}{a_n^3} - \frac{36a_{n-2}a_{n-4}a_{n-12}}{a_n^3} - \frac{36a_{n-2}a_{n-5}a_{n-11}}{a_n^3} -$$
$$\frac{36a_{n-2}a_{n-6}a_{n-10}}{a_n^3} - \frac{36a_{n-2}a_{n-7}a_{n-9}}{a_n^3} - \frac{36a_{n-3}a_{n-4}a_{n-11}}{a_n^3} - \frac{36a_{n-3}a_{n-5}a_{n-10}}{a_n^3} -$$
$$\frac{36a_{n-3}a_{n-6}a_{n-9}}{a_n^3} - \frac{36a_{n-3}a_{n-7}a_{n-8}}{a_n^3} - \frac{36a_{n-4}a_{n-5}a_{n-9}}{a_n^3} - \frac{36a_{n-4}a_{n-6}a_{n-8}}{a_n^3} -$$
$$\frac{36a_{n-5}a_{n-6}a_{n-7}}{a_n^3} + \frac{54a_{n-1}^2a_{n-2}a_{n-14}}{a_n^4} + \frac{54a_{n-1}^2a_{n-3}a_{n-13}}{a_n^4} + \frac{54a_{n-1}^2a_{n-4}a_{n-12}}{a_n^4} +$$
$$\frac{54a_{n-1}^2a_{n-5}a_{n-11}}{a_n^4} + \frac{54a_{n-1}^2a_{n-6}a_{n-10}}{a_n^4} + \frac{54a_{n-1}^2a_{n-7}a_{n-9}}{a_n^4} + \frac{54a_{n-1}a_{n-5}a_{n-6}^2}{a_n^4} +$$
$$\frac{54a_{n-1}a_{n-2}^2a_{n-13}}{a_n^4} + \frac{54a_{n-1}a_{n-3}^2a_{n-11}}{a_n^4} + \frac{54a_{n-1}a_{n-4}^2a_{n-9}}{a_n^4} + \frac{54a_{n-1}a_{n-5}^2a_{n-7}}{a_n^4} +$$
$$\frac{54a_{n-1}a_{n-3}a_{n-7}^2}{a_n^4} + \frac{54a_{n-2}^2a_{n-3}a_{n-11}}{a_n^4} + \frac{54a_{n-2}^2a_{n-4}a_{n-10}}{a_n^4} + \frac{54a_{n-2}^2a_{n-5}a_{n-9}}{a_n^4} +$$
$$\frac{54a_{n-2}^2a_{n-6}a_{n-8}}{a_n^4} + \frac{54a_{n-2}a_{n-3}^2a_{n-10}}{a_n^4} + \frac{54a_{n-3}^2a_{n-4}a_{n-8}}{a_n^4} + \frac{54a_{n-3}^2a_{n-5}a_{n-7}}{a_n^4} +$$

$$\frac{54a_{n-2}a_{n-4}^2a_{n-8}}{a_n^4}+\frac{54a_{n-3}a_{n-4}^2a_{n-7}}{a_n^4}+\frac{54a_{n-2}a_{n-5}^2a_{n-6}}{a_n^4}+\frac{54a_{n-2}a_{n-4}a_{n-6}^2}{a_n^4}-$$
$$\frac{72a_{n-1}^3a_{n-2}a_{n-13}}{a_n^5}-\frac{72a_{n-1}^3a_{n-3}a_{n-12}}{a_n^5}-\frac{72a_{n-1}^3a_{n-4}a_{n-11}}{a_n^5}-\frac{72a_{n-1}^3a_{n-5}a_{n-10}}{a_n^5}-$$
$$\frac{72a_{n-1}^3a_{n-6}a_{n-9}}{a_n^5}-\frac{72a_{n-1}^3a_{n-7}a_{n-8}}{a_n^5}-\frac{72a_{n-1}a_{n-2}^3a_{n-11}}{a_n^5}-\frac{72a_{n-1}a_{n-3}^3a_{n-8}}{a_n^5}-$$
$$\frac{72a_{n-1}a_{n-4}^3a_{n-5}}{a_n^5}-\frac{72a_{n-1}a_{n-2}a_{n-5}^3}{a_n^5}-\frac{72a_{n-2}^3a_{n-3}a_{n-9}}{a_n^5}-\frac{72a_{n-2}^3a_{n-4}a_{n-8}}{a_n^5}-$$
$$\frac{72a_{n-2}^3a_{n-5}a_{n-7}}{a_n^5}-\frac{72a_{n-2}a_{n-3}^3a_{n-7}}{a_n^5}-\frac{72a_{n-3}^3a_{n-4}a_{n-5}}{a_n^5}+\frac{90a_{n-1}^4a_{n-2}a_{n-12}}{a_n^6}+$$
$$\frac{90a_{n-1}^4a_{n-3}a_{n-11}}{a_n^6}+\frac{90a_{n-1}^4a_{n-4}a_{n-10}}{a_n^6}+\frac{90a_{n-1}^4a_{n-5}a_{n-9}}{a_n^6}+\frac{90a_{n-1}^4a_{n-6}a_{n-8}}{a_n^6}+$$
$$\frac{90a_{n-1}a_{n-2}^4a_{n-9}}{a_n^6}+\frac{90a_{n-1}a_{n-3}^4a_{n-5}}{a_n^6}+\frac{90a_{n-2}^4a_{n-3}a_{n-7}}{a_n^6}+\frac{90a_{n-2}^4a_{n-4}a_{n-6}}{a_n^6}+$$
$$\frac{90a_{n-2}a_{n-3}^4a_{n-4}}{a_n^6}-\frac{108a_{n-1}^5a_{n-2}a_{n-11}}{a_n^7}-\frac{108a_{n-1}^5a_{n-3}a_{n-10}}{a_n^7}-\frac{108a_{n-1}^5a_{n-4}a_{n-9}}{a_n^7}-$$
$$\frac{108a_{n-1}^5a_{n-5}a_{n-8}}{a_n^7}-\frac{108a_{n-1}^5a_{n-6}a_{n-7}}{a_n^7}-\frac{108a_{n-1}a_{n-2}a_{n-3}^5}{a_n^7}-\frac{108a_{n-1}a_{n-2}^5a_{n-7}}{a_n^7}-$$
$$\frac{108a_{n-2}^5a_{n-3}a_{n-5}}{a_n^7}+\frac{126a_{n-1}^6a_{n-2}a_{n-10}}{a_n^8}+\frac{126a_{n-1}^6a_{n-3}a_{n-9}}{a_n^8}+\frac{126a_{n-1}^6a_{n-4}a_{n-8}}{a_n^8}+$$
$$\frac{126a_{n-1}^6a_{n-5}a_{n-7}}{a_n^8}+\frac{126a_{n-1}a_{n-2}^6a_{n-5}}{a_n^8}-\frac{144a_{n-1}^7a_{n-2}a_{n-9}}{a_n^9}-\frac{144a_{n-1}^7a_{n-3}a_{n-8}}{a_n^9}-$$
$$\frac{144a_{n-1}^7a_{n-4}a_{n-7}}{a_n^9}-\frac{144a_{n-1}^7a_{n-5}a_{n-6}}{a_n^9}-\frac{144a_{n-1}a_{n-2}^7a_{n-3}}{a_n^9}+\frac{162a_{n-1}^8a_{n-2}a_{n-8}}{a_n^{10}}+$$
$$\frac{162a_{n-1}^8a_{n-3}a_{n-7}}{a_n^{10}}+\frac{162a_{n-1}^8a_{n-4}a_{n-6}}{a_n^{10}}-\frac{180a_{n-1}^9a_{n-2}a_{n-7}}{a_n^{11}}-\frac{180a_{n-1}^9a_{n-3}a_{n-6}}{a_n^{11}}-$$
$$\frac{180a_{n-1}^9a_{n-4}a_{n-5}}{a_n^{11}}+\frac{198a_{n-1}^{10}a_{n-2}a_{n-6}}{a_n^{12}}+\frac{198a_{n-1}^{10}a_{n-3}a_{n-5}}{a_n^{12}}-\frac{216a_{n-1}^{11}a_{n-2}a_{n-5}}{a_n^{13}}-$$
$$\frac{216a_{n-1}^{11}a_{n-3}a_{n-4}}{a_n^{13}}+\frac{234a_{n-1}^{12}a_{n-2}a_{n-4}}{a_n^{14}}-\frac{252a_{n-1}^{13}a_{n-2}a_{n-3}}{a_n^{15}}-\frac{108a_{n-1}^2a_{n-4}a_{n-6}^2}{a_n^5}-$$
$$\frac{108a_{n-1}^2a_{n-2}^2a_{n-12}}{a_n^5}-\frac{108a_{n-1}^2a_{n-3}^2a_{n-10}}{a_n^5}-\frac{108a_{n-1}^2a_{n-4}^2a_{n-8}}{a_n^5}-\frac{108a_{n-1}^2a_{n-5}^2a_{n-6}}{a_n^5}-$$
$$\frac{108a_{n-1}^2a_{n-2}a_{n-7}^2}{a_n^5}-\frac{108a_{n-2}^2a_{n-3}^2a_{n-8}}{a_n^5}-\frac{108a_{n-2}^2a_{n-4}^2a_{n-6}}{a_n^5}-\frac{108a_{n-2}^2a_{n-4}a_{n-5}^2}{a_n^5}-$$
$$\frac{108a_{n-2}a_{n-3}^2a_{n-5}^2}{a_n^5}+\frac{180a_{n-1}^3a_{n-3}a_{n-6}^2}{a_n^6}+\frac{180a_{n-1}^3a_{n-2}^2a_{n-11}}{a_n^6}+\frac{180a_{n-1}^3a_{n-3}^2a_{n-9}}{a_n^6}+$$
$$\frac{180a_{n-1}^3a_{n-4}^2a_{n-7}}{a_n^6}+\frac{180a_{n-1}^2a_{n-2}^3a_{n-10}}{a_n^6}+\frac{180a_{n-1}^2a_{n-3}^3a_{n-7}}{a_n^6}+\frac{180a_{n-1}a_{n-3}^3a_{n-4}^2}{a_n^6}+$$
$$\frac{180a_{n-2}^3a_{n-3}^2a_{n-6}}{a_n^6}+\frac{180a_{n-2}^2a_{n-3}^3a_{n-5}}{a_n^6}-\frac{270a_{n-1}^4a_{n-2}^2a_{n-10}}{a_n^7}-\frac{270a_{n-1}^4a_{n-3}^2a_{n-8}}{a_n^7}-$$
$$\frac{270a_{n-1}^4a_{n-4}^2a_{n-6}}{a_n^7}-\frac{270a_{n-1}^4a_{n-4}a_{n-5}^2}{a_n^7}-\frac{270a_{n-1}^4a_{n-2}a_{n-6}^2}{a_n^7}-\frac{270a_{n-1}^2a_{n-2}^4a_{n-8}}{a_n^7}-$$
$$\frac{270a_{n-1}^2a_{n-3}^4a_{n-4}}{a_n^7}-\frac{270a_{n-2}^4a_{n-3}^2a_{n-4}}{a_n^7}+\frac{378a_{n-1}^5a_{n-2}^2a_{n-9}}{a_n^8}+\frac{378a_{n-1}^5a_{n-3}^2a_{n-7}}{a_n^8}+$$
$$\frac{378a_{n-1}^5a_{n-4}^2a_{n-5}}{a_n^8}+\frac{378a_{n-1}^5a_{n-3}a_{n-5}^2}{a_n^8}+\frac{378a_{n-1}^2a_{n-2}^5a_{n-6}}{a_n^8}-\frac{504a_{n-1}^6a_{n-2}^2a_{n-8}}{a_n^9}-$$
$$\frac{504a_{n-1}^6a_{n-3}^2a_{n-6}}{a_n^9}-\frac{504a_{n-1}^6a_{n-2}a_{n-5}^2}{a_n^9}-\frac{504a_{n-1}^2a_{n-2}^6a_{n-4}}{a_n^9}+\frac{648a_{n-1}^7a_{n-2}^2a_{n-7}}{a_n^{10}}+$$

$$\frac{648a_{n-1}^7a_{n-3}^2a_{n-5}}{a_n^{10}}+\frac{648a_{n-1}^7a_{n-3}a_{n-4}^2}{a_n^{10}}-\frac{810a_{n-1}^8a_{n-2}^2a_{n-6}}{a_n^{11}}-\frac{810a_{n-1}^8a_{n-3}^2a_{n-4}}{a_n^{11}}-$$
$$\frac{810a_{n-1}^8a_{n-2}a_{n-4}^2}{a_n^{11}}+\frac{990a_{n-1}^9a_{n-2}^2a_{n-5}}{a_n^{12}}-\frac{1188a_{n-1}^{10}a_{n-2}^2a_{n-4}}{a_n^{13}}-\frac{1188a_{n-1}^{10}a_{n-2}a_{n-3}^2}{a_n^{13}}+$$
$$\frac{1404a_{n-1}^{11}a_{n-2}^2a_{n-3}}{a_n^{14}}-\frac{360a_{n-1}^3a_{n-3}a_{n-4}^3}{a_n^7}-\frac{360a_{n-1}^3a_{n-2}^3a_{n-9}}{a_n^7}-\frac{360a_{n-1}^3a_{n-3}^3a_{n-6}}{a_n^7}+$$
$$\frac{630a_{n-1}^4a_{n-2}a_{n-4}^3}{a_n^8}+\frac{630a_{n-1}^4a_{n-2}^3a_{n-8}}{a_n^8}+\frac{630a_{n-1}^4a_{n-3}^3a_{n-5}}{a_n^8}+\frac{630a_{n-1}^3a_{n-2}^4a_{n-7}}{a_n^8}+$$
$$\frac{630a_{n-1}a_{n-2}^4a_{n-3}^3}{a_n^8}-\frac{1008a_{n-1}^5a_{n-2}^3a_{n-7}}{a_n^9}-\frac{1008a_{n-1}^5a_{n-3}^3a_{n-4}}{a_n^9}-\frac{1008a_{n-1}^3a_{n-2}^5a_{n-5}}{a_n^9}+$$
$$\frac{1512a_{n-1}^6a_{n-2}^3a_{n-6}}{a_n^{10}}+\frac{1512a_{n-1}^3a_{n-2}^6a_{n-3}}{a_n^{10}}-\frac{2160a_{n-1}^7a_{n-2}^3a_{n-5}}{a_n^{11}}-\frac{2160a_{n-1}^7a_{n-2}a_{n-3}^3}{a_n^{11}}+$$
$$\frac{2970a_{n-1}^8a_{n-2}^3a_{n-4}}{a_n^{12}}-\frac{3960a_{n-1}^9a_{n-2}^3a_{n-3}}{a_n^{13}}-\frac{1260a_{n-1}^4a_{n-2}a_{n-3}^4}{a_n^9}-\frac{1260a_{n-1}^4a_{n-2}^4a_{n-6}}{a_n^9}+$$
$$\frac{2268a_{n-1}^5a_{n-2}^4a_{n-5}}{a_n^{10}}+\frac{2268a_{n-1}^4a_{n-2}^5a_{n-4}}{a_n^{10}}-\frac{3780a_{n-1}^6a_{n-2}^4a_{n-4}}{a_n^{11}}+\frac{5940a_{n-1}^7a_{n-2}^4a_{n-3}}{a_n^{12}}-$$
$$\frac{4536a_{n-1}^5a_{n-2}^5a_{n-3}}{a_n^{11}}+\frac{270a_{n-1}^2a_{n-2}^2a_{n-6}^2}{a_n^6}+\frac{270a_{n-1}^2a_{n-3}^2a_{n-5}^2}{a_n^6}+\frac{270a_{n-2}^2a_{n-3}^2a_{n-4}^2}{a_n^6}-$$
$$\frac{540a_{n-1}^2a_{n-2}^2a_{n-4}^3}{a_n^7}-\frac{540a_{n-1}^2a_{n-2}^3a_{n-5}^2}{a_n^7}+\frac{945a_{n-1}^4a_{n-2}^2a_{n-5}^2}{a_n^8}+\frac{945a_{n-1}^4a_{n-3}^2a_{n-4}^2}{a_n^8}+$$
$$\frac{945a_{n-1}^2a_{n-2}^2a_{n-3}^4}{a_n^8}+\frac{945a_{n-1}^2a_{n-2}^4a_{n-4}^2}{a_n^8}-\frac{1512a_{n-1}^2a_{n-2}^5a_{n-3}^2}{a_n^9}+\frac{2268a_{n-1}^6a_{n-2}^2a_{n-4}^2}{a_n^{10}}+$$
$$\frac{4455a_{n-1}^8a_{n-2}^2a_{n-3}^2}{a_n^{12}}-\frac{2520a_{n-1}^4a_{n-2}^3a_{n-4}^2}{a_n^9}+\frac{4536a_{n-1}^5a_{n-2}^2a_{n-3}^3}{a_n^{10}}-\frac{7560a_{n-1}^6a_{n-2}^3a_{n-3}^2}{a_n^{11}}+$$
$$\frac{5670a_{n-1}^4a_{n-2}^4a_{n-3}^2}{a_n^{10}}-\frac{3360a_{n-1}^3a_{n-2}^3a_{n-3}^3}{a_n^9}+\frac{108a_{n-1}a_{n-2}a_{n-3}a_{n-12}}{a_n^4}+$$
$$\frac{108a_{n-1}a_{n-2}a_{n-4}a_{n-11}}{a_n^4}+\frac{108a_{n-1}a_{n-2}a_{n-5}a_{n-10}}{a_n^4}+\frac{108a_{n-1}a_{n-2}a_{n-6}a_{n-9}}{a_n^4}+$$
$$\frac{108a_{n-1}a_{n-2}a_{n-7}a_{n-8}}{a_n^4}+\frac{108a_{n-1}a_{n-3}a_{n-4}a_{n-10}}{a_n^4}+\frac{108a_{n-1}a_{n-3}a_{n-5}a_{n-9}}{a_n^4}+$$
$$\frac{108a_{n-1}a_{n-3}a_{n-6}a_{n-8}}{a_n^4}+\frac{108a_{n-1}a_{n-4}a_{n-5}a_{n-8}}{a_n^4}+\frac{108a_{n-1}a_{n-4}a_{n-6}a_{n-7}}{a_n^4}+$$
$$\frac{108a_{n-2}a_{n-3}a_{n-4}a_{n-9}}{a_n^4}+\frac{108a_{n-2}a_{n-3}a_{n-5}a_{n-8}}{a_n^4}+\frac{108a_{n-2}a_{n-3}a_{n-6}a_{n-7}}{a_n^4}+$$
$$\frac{108a_{n-2}a_{n-4}a_{n-5}a_{n-7}}{a_n^4}+\frac{108a_{n-3}a_{n-4}a_{n-5}a_{n-6}}{a_n^4}-\frac{216a_{n-1}^2a_{n-2}a_{n-3}a_{n-11}}{a_n^5}-$$
$$\frac{216a_{n-1}^2a_{n-2}a_{n-4}a_{n-10}}{a_n^5}-\frac{216a_{n-1}^2a_{n-2}a_{n-5}a_{n-9}}{a_n^5}-\frac{216a_{n-1}^2a_{n-2}a_{n-6}a_{n-8}}{a_n^5}-$$
$$\frac{216a_{n-1}^2a_{n-3}a_{n-4}a_{n-9}}{a_n^5}-\frac{216a_{n-1}^2a_{n-3}a_{n-5}a_{n-8}}{a_n^5}-\frac{216a_{n-1}^2a_{n-3}a_{n-6}a_{n-7}}{a_n^5}-$$
$$\frac{216a_{n-1}^2a_{n-4}a_{n-5}a_{n-7}}{a_n^5}-\frac{216a_{n-1}a_{n-2}^2a_{n-3}a_{n-10}}{a_n^5}-\frac{216a_{n-1}a_{n-2}^2a_{n-4}a_{n-9}}{a_n^5}-$$
$$\frac{216a_{n-1}a_{n-2}^2a_{n-5}a_{n-8}}{a_n^5}-\frac{216a_{n-1}a_{n-2}^2a_{n-6}a_{n-7}}{a_n^5}-\frac{216a_{n-1}a_{n-2}a_{n-3}^2a_{n-9}}{a_n^5}-$$
$$\frac{216a_{n-1}a_{n-3}^2a_{n-4}a_{n-7}}{a_n^5}-\frac{216a_{n-1}a_{n-3}^2a_{n-5}a_{n-6}}{a_n^5}-\frac{216a_{n-1}a_{n-2}a_{n-4}^2a_{n-7}}{a_n^5}-$$
$$\frac{216a_{n-1}a_{n-3}a_{n-4}^2a_{n-6}}{a_n^5}-\frac{216a_{n-1}a_{n-3}a_{n-4}a_{n-5}^2}{a_n^5}-\frac{216a_{n-1}a_{n-2}a_{n-3}a_{n-6}^2}{a_n^5}-$$

$$\frac{216a_{n-2}^2a_{n-3}a_{n-4}a_{n-7}}{a_n^5}-\frac{216a_{n-2}^2a_{n-3}a_{n-5}a_{n-6}}{a_n^5}-\frac{216a_{n-2}a_{n-3}^2a_{n-4}a_{n-6}}{a_n^5}-$$
$$\frac{216a_{n-2}a_{n-3}a_{n-4}^2a_{n-5}}{a_n^5}+\frac{360a_{n-1}^3a_{n-2}a_{n-3}a_{n-10}}{a_n^6}+\frac{360a_{n-1}^3a_{n-2}a_{n-4}a_{n-9}}{a_n^6}+$$
$$\frac{360a_{n-1}^3a_{n-2}a_{n-5}a_{n-8}}{a_n^6}+\frac{360a_{n-1}^3a_{n-2}a_{n-6}a_{n-7}}{a_n^6}+\frac{360a_{n-1}^3a_{n-3}a_{n-4}a_{n-8}}{a_n^6}+$$
$$\frac{360a_{n-1}^3a_{n-3}a_{n-5}a_{n-7}}{a_n^6}+\frac{360a_{n-1}^3a_{n-4}a_{n-5}a_{n-6}}{a_n^6}+\frac{360a_{n-1}a_{n-2}^3a_{n-3}a_{n-8}}{a_n^6}+$$
$$\frac{360a_{n-1}a_{n-2}^3a_{n-4}a_{n-7}}{a_n^6}+\frac{360a_{n-1}a_{n-2}^3a_{n-5}a_{n-6}}{a_n^6}+\frac{360a_{n-1}a_{n-2}a_{n-3}^3a_{n-6}}{a_n^6}+$$
$$\frac{360a_{n-1}a_{n-2}a_{n-3}a_{n-4}^3}{a_n^6}+\frac{360a_{n-2}^3a_{n-3}a_{n-4}a_{n-5}}{a_n^6}-\frac{540a_{n-1}^4a_{n-2}a_{n-3}a_{n-9}}{a_n^7}-$$
$$\frac{540a_{n-1}^4a_{n-2}a_{n-4}a_{n-8}}{a_n^7}-\frac{540a_{n-1}^4a_{n-2}a_{n-5}a_{n-7}}{a_n^7}-\frac{540a_{n-1}^4a_{n-3}a_{n-4}a_{n-7}}{a_n^7}-$$
$$\frac{540a_{n-1}^4a_{n-3}a_{n-5}a_{n-6}}{a_n^7}-\frac{540a_{n-1}a_{n-2}^4a_{n-3}a_{n-6}}{a_n^7}-\frac{540a_{n-1}a_{n-2}^4a_{n-4}a_{n-5}}{a_n^7}+$$
$$\frac{756a_{n-1}^5a_{n-2}a_{n-3}a_{n-8}}{a_n^8}+\frac{756a_{n-1}^5a_{n-2}a_{n-4}a_{n-7}}{a_n^8}+\frac{756a_{n-1}^5a_{n-2}a_{n-5}a_{n-6}}{a_n^8}+$$
$$\frac{756a_{n-1}^5a_{n-3}a_{n-4}a_{n-6}}{a_n^8}+\frac{756a_{n-1}a_{n-2}^5a_{n-3}a_{n-4}}{a_n^8}-\frac{1008a_{n-1}^6a_{n-2}a_{n-3}a_{n-7}}{a_n^9}-$$
$$\frac{1008a_{n-1}^6a_{n-2}a_{n-4}a_{n-6}}{a_n^9}-\frac{1008a_{n-1}^6a_{n-3}a_{n-4}a_{n-5}}{a_n^9}+\frac{1296a_{n-1}^7a_{n-2}a_{n-3}a_{n-6}}{a_n^{10}}+$$
$$\frac{1296a_{n-1}^7a_{n-2}a_{n-4}a_{n-5}}{a_n^{10}}-\frac{1620a_{n-1}^8a_{n-2}a_{n-3}a_{n-5}}{a_n^{11}}+\frac{1980a_{n-1}^9a_{n-2}a_{n-3}a_{n-4}}{a_n^{12}}+$$
$$\frac{540a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-9}}{a_n^6}+\frac{540a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-8}}{a_n^6}+\frac{540a_{n-1}^2a_{n-2}^2a_{n-5}a_{n-7}}{a_n^6}+$$
$$\frac{540a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-8}}{a_n^6}+\frac{540a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-4}a_{n-6}}{a_n^6}+\frac{540a_{n-1}^2a_{n-2}a_{n-4}^2a_{n-6}}{a_n^6}+$$
$$\frac{540a_{n-1}^2a_{n-3}a_{n-4}^2a_{n-5}}{a_n^6}+\frac{540a_{n-1}^2a_{n-2}a_{n-4}a_{n-5}^2}{a_n^6}+\frac{540a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-7}}{a_n^6}+$$
$$\frac{540a_{n-1}a_{n-2}^2a_{n-4}^2a_{n-5}}{a_n^6}+\frac{540a_{n-1}a_{n-2}^2a_{n-3}a_{n-5}^2}{a_n^6}-\frac{1080a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-8}}{a_n^7}-$$
$$\frac{1080a_{n-1}^3a_{n-2}^2a_{n-4}a_{n-7}}{a_n^7}-\frac{1080a_{n-1}^3a_{n-2}^2a_{n-5}a_{n-6}}{a_n^7}-\frac{1080a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-7}}{a_n^7}-$$
$$\frac{1080a_{n-1}^3a_{n-3}^2a_{n-4}a_{n-5}}{a_n^7}-\frac{1080a_{n-1}^3a_{n-2}a_{n-4}^2a_{n-5}}{a_n^7}-\frac{1080a_{n-1}^3a_{n-2}a_{n-3}a_{n-5}^2}{a_n^7}-$$
$$\frac{1080a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-7}}{a_n^7}-\frac{1080a_{n-1}^2a_{n-2}^3a_{n-4}a_{n-6}}{a_n^7}-\frac{1080a_{n-1}^2a_{n-2}a_{n-3}^3a_{n-5}}{a_n^7}-$$
$$\frac{1080a_{n-1}a_{n-2}^3a_{n-3}^2a_{n-5}}{a_n^7}-\frac{1080a_{n-1}a_{n-2}^3a_{n-3}a_{n-4}^2}{a_n^7}-\frac{1080a_{n-1}a_{n-2}^2a_{n-3}^3a_{n-4}}{a_n^7}+$$
$$\frac{1890a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-7}}{a_n^8}+\frac{1890a_{n-1}^4a_{n-2}^2a_{n-4}a_{n-6}}{a_n^8}+\frac{1890a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-6}}{a_n^8}+$$
$$\frac{1890a_{n-1}^2a_{n-2}^4a_{n-3}a_{n-5}}{a_n^8}-\frac{3024a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-6}}{a_n^9}-\frac{3024a_{n-1}^5a_{n-2}^2a_{n-4}a_{n-5}}{a_n^9}-$$
$$\frac{3024a_{n-1}^5a_{n-2}a_{n-3}^2a_{n-5}}{a_n^9}-\frac{3024a_{n-1}^5a_{n-2}a_{n-3}a_{n-4}^2}{a_n^9}+\frac{4536a_{n-1}^6a_{n-2}^2a_{n-3}a_{n-5}}{a_n^{10}}+$$
$$\frac{4536a_{n-1}^6a_{n-2}a_{n-3}^2a_{n-4}}{a_n^{10}}-\frac{6480a_{n-1}^7a_{n-2}^2a_{n-3}a_{n-4}}{a_n^{11}}+\frac{2520a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-6}}{a_n^8}+$$

$$\frac{2520a_{n-1}^3a_{n-2}^3a_{n-4}a_{n-5}}{a_n^8}+\frac{2520a_{n-1}^3a_{n-2}a_{n-3}^3a_{n-4}}{a_n^8}-\frac{5040a_{n-1}^4a_{n-2}^3a_{n-3}a_{n-5}}{a_n^9}-\frac{5040a_{n-1}^3a_{n-2}^4a_{n-3}a_{n-4}}{a_n^9}+\frac{9072a_{n-1}^5a_{n-2}^3a_{n-3}a_{n-4}}{a_n^{10}}-\frac{1620a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-6}}{a_n^7}-\frac{1620a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-4}^2}{a_n^7}+\frac{3780a_{n-1}^3a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^8}+\frac{3780a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-4}^2}{a_n^8}+\frac{3780a_{n-1}^2a_{n-2}^3a_{n-3}^2a_{n-4}}{a_n^8}-\frac{7560a_{n-1}^4a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^9}-\frac{432a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-8}}{a_n^5}-\frac{432a_{n-1}a_{n-2}a_{n-3}a_{n-5}a_{n-7}}{a_n^5}-\frac{432a_{n-1}a_{n-2}a_{n-4}a_{n-5}a_{n-6}}{a_n^5}+\frac{1080a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}a_{n-7}}{a_n^6}+\frac{1080a_{n-1}^2a_{n-2}a_{n-3}a_{n-5}a_{n-6}}{a_n^6}+\frac{1080a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}a_{n-6}}{a_n^6}+\frac{1080a_{n-1}a_{n-2}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^6}-\frac{1080a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^7}+\frac{3780a_{n-1}^4a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^8}-\frac{3240a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^7}$$

$$\sum_{k=1}^{n} z_k^{19}=-\frac{19a_{n-19}}{a_n}-\frac{a_{n-1}^{19}}{a_n^{19}}+\frac{19a_{n-1}a_{n-18}}{a_n^2}+\frac{19a_{n-2}a_{n-17}}{a_n^2}+\frac{19a_{n-3}a_{n-16}}{a_n^2}+\frac{19a_{n-4}a_{n-15}}{a_n^2}+\frac{19a_{n-5}a_{n-14}}{a_n^2}+\frac{19a_{n-6}a_{n-13}}{a_n^2}+\frac{19a_{n-7}a_{n-12}}{a_n^2}+\frac{19a_{n-8}a_{n-11}}{a_n^2}+\frac{19a_{n-9}a_{n-10}}{a_n^2}-\frac{19a_{n-1}^2a_{n-17}}{a_n^3}-\frac{19a_{n-1}a_{n-9}^2}{a_n^3}-\frac{19a_{n-3}a_{n-8}^2}{a_n^3}-\frac{19a_{n-2}^2a_{n-15}}{a_n^3}-\frac{19a_{n-3}^2a_{n-13}}{a_n^3}-\frac{19a_{n-4}^2a_{n-11}}{a_n^3}-\frac{19a_{n-5}^2a_{n-9}}{a_n^3}-\frac{19a_{n-6}^2a_{n-7}}{a_n^3}-\frac{19a_{n-5}a_{n-7}^2}{a_n^3}+\frac{19a_{n-1}^3a_{n-16}}{a_n^4}+\frac{19a_{n-1}a_{n-6}^3}{a_n^4}+\frac{19a_{n-2}^3a_{n-13}}{a_n^4}+\frac{19a_{n-3}^3a_{n-10}}{a_n^4}+\frac{19a_{n-4}^3a_{n-7}}{a_n^4}+\frac{19a_{n-4}a_{n-5}^3}{a_n^4}-\frac{19a_{n-1}^4a_{n-15}}{a_n^5}-\frac{19a_{n-3}a_{n-4}^4}{a_n^5}-\frac{19a_{n-2}^4a_{n-11}}{a_n^5}-\frac{19a_{n-3}^4a_{n-7}}{a_n^5}+\frac{19a_{n-1}^5a_{n-14}}{a_n^6}+\frac{19a_{n-2}^5a_{n-9}}{a_n^6}+\frac{19a_{n-3}^5a_{n-4}}{a_n^6}-\frac{19a_{n-1}^6a_{n-13}}{a_n^7}-\frac{19a_{n-1}a_{n-3}^6}{a_n^7}-\frac{19a_{n-2}^6a_{n-7}}{a_n^7}+\frac{19a_{n-1}^7a_{n-12}}{a_n^8}+\frac{19a_{n-2}^7a_{n-5}}{a_n^8}-\frac{19a_{n-1}^8a_{n-11}}{a_n^9}-\frac{19a_{n-2}^8a_{n-3}}{a_n^9}+\frac{19a_{n-1}^9a_{n-10}}{a_n^{10}}+\frac{19a_{n-1}a_{n-2}^9}{a_n^{10}}-\frac{19a_{n-1}^{10}a_{n-9}}{a_n^{11}}+\frac{19a_{n-1}^{11}a_{n-8}}{a_n^{12}}-\frac{19a_{n-1}^{12}a_{n-7}}{a_n^{13}}+\frac{19a_{n-1}^{13}a_{n-6}}{a_n^{14}}-\frac{19a_{n-1}^{14}a_{n-5}}{a_n^{15}}+\frac{19a_{n-1}^{15}a_{n-4}}{a_n^{16}}-\frac{19a_{n-1}^{16}a_{n-3}}{a_n^{17}}+\frac{19a_{n-1}^{17}a_{n-2}}{a_n^{18}}-\frac{38a_{n-1}^3a_{n-8}^2}{a_n^5}-\frac{38a_{n-3}^3a_{n-5}^2}{a_n^5}-\frac{38a_{n-2}^2a_{n-5}^3}{a_n^5}-\frac{57a_{n-1}^5a_{n-7}^2}{a_n^7}-\frac{57a_{n-2}^2a_{n-3}^5}{a_n^7}-\frac{76a_{n-1}^7a_{n-6}^2}{a_n^9}-\frac{95a_{n-1}^9a_{n-5}^2}{a_n^{11}}-\frac{114a_{n-1}^{11}a_{n-4}^2}{a_n^{13}}-\frac{133a_{n-1}^{13}a_{n-3}^2}{a_n^{15}}-\frac{152a_{n-1}^{15}a_{n-2}^2}{a_n^{17}}-\frac{95a_{n-1}^4a_{n-5}^3}{a_n^7}-\frac{95a_{n-1}^3a_{n-4}^4}{a_n^7}+\frac{133a_{n-2}^5a_{n-3}^3}{a_n^8}+\frac{228a_{n-1}^7a_{n-4}^3}{a_n^{10}}-\frac{285a_{n-1}^3a_{n-2}^8}{a_n^{11}}-\frac{418a_{n-1}^{10}a_{n-3}^3}{a_n^{13}}+\frac{665a_{n-1}^{13}a_{n-2}^3}{a_n^{16}}-\frac{266a_{n-1}^4a_{n-3}^5}{a_n^9}-\frac{570a_{n-1}^7a_{n-3}^4}{a_n^{11}}-\frac{1729a_{n-1}^{11}a_{n-2}^4}{a_n^{15}}+\frac{1254a_{n-1}^5a_{n-2}^7}{a_n^{12}}+\frac{2717a_{n-1}^9a_{n-2}^5}{a_n^{14}}-\frac{2508a_{n-1}^7a_{n-2}^6}{a_n^{13}}-\frac{38a_{n-1}a_{n-2}a_{n-16}}{a_n^3}-\frac{38a_{n-1}a_{n-3}a_{n-15}}{a_n^3}-$$

$$\frac{38a_{n-1}a_{n-4}a_{n-14}}{a_n^3} - \frac{38a_{n-1}a_{n-5}a_{n-13}}{a_n^3} - \frac{38a_{n-1}a_{n-6}a_{n-12}}{a_n^3} - \frac{38a_{n-1}a_{n-7}a_{n-11}}{a_n^3} -$$
$$\frac{38a_{n-1}a_{n-8}a_{n-10}}{a_n^3} - \frac{38a_{n-2}a_{n-3}a_{n-14}}{a_n^3} - \frac{38a_{n-2}a_{n-4}a_{n-13}}{a_n^3} - \frac{38a_{n-2}a_{n-5}a_{n-12}}{a_n^3} -$$
$$\frac{38a_{n-2}a_{n-6}a_{n-11}}{a_n^3} - \frac{38a_{n-2}a_{n-7}a_{n-10}}{a_n^3} - \frac{38a_{n-2}a_{n-8}a_{n-9}}{a_n^3} - \frac{38a_{n-3}a_{n-4}a_{n-12}}{a_n^3} -$$
$$\frac{38a_{n-3}a_{n-5}a_{n-11}}{a_n^3} - \frac{38a_{n-3}a_{n-6}a_{n-10}}{a_n^3} - \frac{38a_{n-3}a_{n-7}a_{n-9}}{a_n^3} - \frac{38a_{n-4}a_{n-5}a_{n-10}}{a_n^3} -$$
$$\frac{38a_{n-4}a_{n-6}a_{n-9}}{a_n^3} - \frac{38a_{n-4}a_{n-7}a_{n-8}}{a_n^3} - \frac{38a_{n-5}a_{n-6}a_{n-8}}{a_n^3} + \frac{57a_{n-1}^2a_{n-2}a_{n-15}}{a_n^4} +$$
$$\frac{57a_{n-1}^2a_{n-3}a_{n-14}}{a_n^4} + \frac{57a_{n-1}^2a_{n-4}a_{n-13}}{a_n^4} + \frac{57a_{n-1}^2a_{n-5}a_{n-12}}{a_n^4} + \frac{57a_{n-1}^2a_{n-6}a_{n-11}}{a_n^4} +$$
$$\frac{57a_{n-1}^2a_{n-7}a_{n-10}}{a_n^4} + \frac{57a_{n-1}^2a_{n-8}a_{n-9}}{a_n^4} + \frac{57a_{n-1}a_{n-2}a_{n-8}^2}{a_n^4} + \frac{57a_{n-1}a_{n-2}^2a_{n-14}}{a_n^4} +$$
$$\frac{57a_{n-1}a_{n-3}^2a_{n-12}}{a_n^4} + \frac{57a_{n-1}a_{n-4}^2a_{n-10}}{a_n^4} + \frac{57a_{n-1}a_{n-5}^2a_{n-8}}{a_n^4} + \frac{57a_{n-1}a_{n-4}a_{n-7}^2}{a_n^4} +$$
$$\frac{57a_{n-2}^2a_{n-3}a_{n-12}}{a_n^4} + \frac{57a_{n-2}^2a_{n-4}a_{n-11}}{a_n^4} + \frac{57a_{n-2}^2a_{n-5}a_{n-10}}{a_n^4} + \frac{57a_{n-2}^2a_{n-6}a_{n-9}}{a_n^4} +$$
$$\frac{57a_{n-2}^2a_{n-7}a_{n-8}}{a_n^4} + \frac{57a_{n-2}a_{n-3}^2a_{n-11}}{a_n^4} + \frac{57a_{n-3}^2a_{n-4}a_{n-9}}{a_n^4} + \frac{57a_{n-3}^2a_{n-5}a_{n-8}}{a_n^4} +$$
$$\frac{57a_{n-3}^2a_{n-6}a_{n-7}}{a_n^4} + \frac{57a_{n-2}a_{n-4}^2a_{n-9}}{a_n^4} + \frac{57a_{n-3}a_{n-4}^2a_{n-8}}{a_n^4} + \frac{57a_{n-4}^2a_{n-5}a_{n-6}}{a_n^4} +$$
$$\frac{57a_{n-2}a_{n-5}^2a_{n-7}}{a_n^4} + \frac{57a_{n-3}a_{n-5}^2a_{n-6}}{a_n^4} + \frac{57a_{n-2}a_{n-5}a_{n-6}^2}{a_n^4} + \frac{57a_{n-3}a_{n-4}a_{n-6}^2}{a_n^4} +$$
$$\frac{57a_{n-2}a_{n-3}a_{n-7}^2}{a_n^4} - \frac{76a_{n-1}^3a_{n-2}a_{n-14}}{a_n^5} - \frac{76a_{n-1}^3a_{n-3}a_{n-13}}{a_n^5} - \frac{76a_{n-1}^3a_{n-4}a_{n-12}}{a_n^5} -$$
$$\frac{76a_{n-1}^3a_{n-5}a_{n-11}}{a_n^5} - \frac{76a_{n-1}^3a_{n-6}a_{n-10}}{a_n^5} - \frac{76a_{n-1}^3a_{n-7}a_{n-9}}{a_n^5} - \frac{76a_{n-1}a_{n-2}^3a_{n-12}}{a_n^5} -$$
$$\frac{76a_{n-1}a_{n-3}^3a_{n-9}}{a_n^5} - \frac{76a_{n-1}a_{n-4}^3a_{n-6}}{a_n^5} - \frac{76a_{n-1}a_{n-3}a_{n-5}^3}{a_n^5} - \frac{76a_{n-2}^3a_{n-3}a_{n-10}}{a_n^5} -$$
$$\frac{76a_{n-2}^3a_{n-4}a_{n-9}}{a_n^5} - \frac{76a_{n-2}^3a_{n-5}a_{n-8}}{a_n^5} - \frac{76a_{n-2}^3a_{n-6}a_{n-7}}{a_n^5} - \frac{76a_{n-2}a_{n-3}^3a_{n-8}}{a_n^5} -$$
$$\frac{76a_{n-3}^3a_{n-4}a_{n-6}}{a_n^5} - \frac{76a_{n-2}a_{n-4}^3a_{n-5}}{a_n^5} + \frac{95a_{n-1}^4a_{n-2}a_{n-13}}{a_n^6} + \frac{95a_{n-1}^4a_{n-3}a_{n-12}}{a_n^6} +$$
$$\frac{95a_{n-1}^4a_{n-4}a_{n-11}}{a_n^6} + \frac{95a_{n-1}^4a_{n-5}a_{n-10}}{a_n^6} + \frac{95a_{n-1}^4a_{n-6}a_{n-9}}{a_n^6} + \frac{95a_{n-1}^4a_{n-7}a_{n-8}}{a_n^6} +$$
$$\frac{95a_{n-1}a_{n-2}a_{n-4}^4}{a_n^6} + \frac{95a_{n-1}a_{n-2}^4a_{n-10}}{a_n^6} + \frac{95a_{n-1}a_{n-3}^4a_{n-6}}{a_n^6} + \frac{95a_{n-2}^4a_{n-3}a_{n-8}}{a_n^6} +$$
$$\frac{95a_{n-2}^4a_{n-4}a_{n-7}}{a_n^6} + \frac{95a_{n-2}^4a_{n-5}a_{n-6}}{a_n^6} + \frac{95a_{n-2}a_{n-3}^4a_{n-5}}{a_n^6} - \frac{114a_{n-1}^5a_{n-2}a_{n-12}}{a_n^7} -$$
$$\frac{114a_{n-1}^5a_{n-3}a_{n-11}}{a_n^7} - \frac{114a_{n-1}^5a_{n-4}a_{n-10}}{a_n^7} - \frac{114a_{n-1}^5a_{n-5}a_{n-9}}{a_n^7} - \frac{114a_{n-1}^5a_{n-6}a_{n-8}}{a_n^7} -$$
$$\frac{114a_{n-1}a_{n-2}^5a_{n-8}}{a_n^7} - \frac{114a_{n-2}^5a_{n-3}a_{n-6}}{a_n^7} - \frac{114a_{n-2}^5a_{n-4}a_{n-5}}{a_n^7} + \frac{133a_{n-1}^6a_{n-2}a_{n-11}}{a_n^8} +$$
$$\frac{133a_{n-1}^6a_{n-3}a_{n-10}}{a_n^8} + \frac{133a_{n-1}^6a_{n-4}a_{n-9}}{a_n^8} + \frac{133a_{n-1}^6a_{n-5}a_{n-8}}{a_n^8} + \frac{133a_{n-1}^6a_{n-6}a_{n-7}}{a_n^8} +$$
$$\frac{133a_{n-1}a_{n-2}^6a_{n-6}}{a_n^8} + \frac{133a_{n-2}^6a_{n-3}a_{n-4}}{a_n^8} - \frac{152a_{n-1}^7a_{n-2}a_{n-10}}{a_n^9} - \frac{152a_{n-1}^7a_{n-3}a_{n-9}}{a_n^9} -$$

$$\frac{152a_{n-1}^7a_{n-4}a_{n-8}}{a_n^9}-\frac{152a_{n-1}^7a_{n-5}a_{n-7}}{a_n^9}-\frac{152a_{n-1}a_{n-2}^7a_{n-4}}{a_n^9}+\frac{171a_{n-1}^8a_{n-2}a_{n-9}}{a_n^{10}}+$$
$$\frac{171a_{n-1}^8a_{n-3}a_{n-8}}{a_n^{10}}+\frac{171a_{n-1}^8a_{n-4}a_{n-7}}{a_n^{10}}+\frac{171a_{n-1}^8a_{n-5}a_{n-6}}{a_n^{10}}-\frac{190a_{n-1}^9a_{n-2}a_{n-8}}{a_n^{11}}-$$
$$\frac{190a_{n-1}^9a_{n-3}a_{n-7}}{a_n^{11}}-\frac{190a_{n-1}^9a_{n-4}a_{n-6}}{a_n^{11}}+\frac{209a_{n-1}^{10}a_{n-2}a_{n-7}}{a_n^{12}}+\frac{209a_{n-1}^{10}a_{n-3}a_{n-6}}{a_n^{12}}+$$
$$\frac{209a_{n-1}^{10}a_{n-4}a_{n-5}}{a_n^{12}}-\frac{228a_{n-1}^{11}a_{n-2}a_{n-6}}{a_n^{13}}-\frac{228a_{n-1}^{11}a_{n-3}a_{n-5}}{a_n^{13}}+\frac{247a_{n-1}^{12}a_{n-2}a_{n-5}}{a_n^{14}}+$$
$$\frac{247a_{n-1}^{12}a_{n-3}a_{n-4}}{a_n^{14}}-\frac{266a_{n-1}^{13}a_{n-2}a_{n-4}}{a_n^{15}}+\frac{285a_{n-1}^{14}a_{n-2}a_{n-3}}{a_n^{16}}-\frac{114a_{n-1}^2a_{n-5}a_{n-6}^2}{a_n^5}-$$
$$\frac{114a_{n-1}^2a_{n-2}^2a_{n-13}}{a_n^5}-\frac{114a_{n-1}^2a_{n-3}^2a_{n-11}}{a_n^5}-\frac{114a_{n-1}^2a_{n-4}^2a_{n-9}}{a_n^5}-\frac{114a_{n-1}^2a_{n-5}^2a_{n-7}}{a_n^5}-$$
$$\frac{114a_{n-1}^2a_{n-3}a_{n-7}^2}{a_n^5}-\frac{114a_{n-1}a_{n-2}^2a_{n-7}^2}{a_n^5}-\frac{114a_{n-1}a_{n-3}^2a_{n-6}^2}{a_n^5}-\frac{114a_{n-1}a_{n-4}^2a_{n-5}^2}{a_n^5}-$$
$$\frac{114a_{n-2}^2a_{n-3}^2a_{n-9}}{a_n^5}-\frac{114a_{n-2}^2a_{n-4}^2a_{n-7}}{a_n^5}-\frac{114a_{n-2}^2a_{n-3}a_{n-6}^2}{a_n^5}-\frac{114a_{n-3}^2a_{n-4}^2a_{n-5}}{a_n^5}+$$
$$\frac{190a_{n-1}^3a_{n-4}a_{n-6}^2}{a_n^6}+\frac{190a_{n-1}^3a_{n-2}^2a_{n-12}}{a_n^6}+\frac{190a_{n-1}^3a_{n-3}^2a_{n-10}}{a_n^6}+\frac{190a_{n-1}^3a_{n-4}^2a_{n-8}}{a_n^6}+$$
$$\frac{190a_{n-1}^3a_{n-5}^2a_{n-6}}{a_n^6}+\frac{190a_{n-1}^3a_{n-2}a_{n-7}^2}{a_n^6}+\frac{190a_{n-1}^2a_{n-2}^3a_{n-11}}{a_n^6}+\frac{190a_{n-1}^2a_{n-3}^3a_{n-8}}{a_n^6}+$$
$$\frac{190a_{n-1}^2a_{n-4}^3a_{n-5}}{a_n^6}+\frac{190a_{n-1}^2a_{n-2}a_{n-5}^3}{a_n^6}+\frac{190a_{n-1}a_{n-2}^3a_{n-6}^2}{a_n^6}+\frac{190a_{n-1}a_{n-3}^2a_{n-4}^3}{a_n^6}+$$
$$\frac{190a_{n-2}^3a_{n-3}^2a_{n-7}}{a_n^6}+\frac{190a_{n-2}^3a_{n-4}^2a_{n-5}}{a_n^6}+\frac{190a_{n-2}^2a_{n-3}^3a_{n-6}}{a_n^6}+\frac{190a_{n-2}^2a_{n-3}a_{n-4}^3}{a_n^6}+$$
$$\frac{190a_{n-2}^3a_{n-3}a_{n-5}^2}{a_n^6}+\frac{190a_{n-2}a_{n-3}^3a_{n-4}^2}{a_n^6}-\frac{285a_{n-1}^4a_{n-3}a_{n-6}^2}{a_n^7}-\frac{285a_{n-1}^4a_{n-2}^2a_{n-11}}{a_n^7}-$$
$$\frac{285a_{n-1}^4a_{n-3}^2a_{n-9}}{a_n^7}-\frac{285a_{n-1}^4a_{n-4}^2a_{n-7}}{a_n^7}-\frac{285a_{n-1}^2a_{n-2}^4a_{n-9}}{a_n^7}-\frac{285a_{n-1}^2a_{n-3}^4a_{n-5}}{a_n^7}-$$
$$\frac{285a_{n-1}a_{n-2}^4a_{n-5}^2}{a_n^7}-\frac{285a_{n-2}^4a_{n-3}^2a_{n-5}}{a_n^7}-\frac{285a_{n-2}^4a_{n-3}a_{n-4}^2}{a_n^7}+\frac{399a_{n-1}^5a_{n-2}^2a_{n-10}}{a_n^8}+$$
$$\frac{399a_{n-1}^5a_{n-3}^2a_{n-8}}{a_n^8}+\frac{399a_{n-1}^5a_{n-4}^2a_{n-6}}{a_n^8}+\frac{399a_{n-1}^5a_{n-4}a_{n-5}^2}{a_n^8}+\frac{399a_{n-1}^5a_{n-2}a_{n-6}^2}{a_n^8}+$$
$$\frac{399a_{n-1}^2a_{n-2}a_{n-3}^5}{a_n^8}+\frac{399a_{n-1}^2a_{n-2}^5a_{n-7}}{a_n^8}+\frac{399a_{n-1}a_{n-2}^5a_{n-4}^2}{a_n^8}-\frac{532a_{n-1}^6a_{n-2}^2a_{n-9}}{a_n^9}-$$
$$\frac{532a_{n-1}^6a_{n-3}^2a_{n-7}}{a_n^9}-\frac{532a_{n-1}^6a_{n-4}^2a_{n-5}}{a_n^9}-\frac{532a_{n-1}^6a_{n-3}a_{n-5}^2}{a_n^9}-\frac{532a_{n-1}^2a_{n-2}^6a_{n-5}}{a_n^9}-$$
$$\frac{532a_{n-1}a_{n-2}^6a_{n-3}^2}{a_n^9}+\frac{684a_{n-1}^7a_{n-2}^2a_{n-8}}{a_n^{10}}+\frac{684a_{n-1}^7a_{n-3}^2a_{n-6}}{a_n^{10}}+\frac{684a_{n-1}^7a_{n-2}a_{n-5}^2}{a_n^{10}}+$$
$$\frac{684a_{n-1}^2a_{n-2}^7a_{n-3}}{a_n^{10}}-\frac{855a_{n-1}^8a_{n-2}^2a_{n-7}}{a_n^{11}}-\frac{855a_{n-1}^8a_{n-3}^2a_{n-5}}{a_n^{11}}-\frac{855a_{n-1}^8a_{n-3}a_{n-4}^2}{a_n^{11}}+$$
$$\frac{1045a_{n-1}^9a_{n-2}^2a_{n-6}}{a_n^{12}}+\frac{1045a_{n-1}^9a_{n-3}^2a_{n-4}}{a_n^{12}}+\frac{1045a_{n-1}^9a_{n-2}a_{n-4}^2}{a_n^{12}}-\frac{1254a_{n-1}^{10}a_{n-2}^2a_{n-5}}{a_n^{13}}+$$
$$\frac{1482a_{n-1}^{11}a_{n-2}^2a_{n-4}}{a_n^{14}}+\frac{1482a_{n-1}^{11}a_{n-2}a_{n-3}^2}{a_n^{14}}-\frac{1729a_{n-1}^{12}a_{n-2}^2a_{n-3}}{a_n^{15}}-\frac{380a_{n-1}^3a_{n-2}^3a_{n-10}}{a_n^7}-$$
$$\frac{380a_{n-1}^3a_{n-3}^3a_{n-7}}{a_n^7}-\frac{380a_{n-1}a_{n-2}^3a_{n-4}^3}{a_n^7}-\frac{380a_{n-2}^3a_{n-3}^3a_{n-4}}{a_n^7}+\frac{665a_{n-1}^4a_{n-3}a_{n-4}^3}{a_n^8}+$$
$$\frac{665a_{n-1}^4a_{n-2}^3a_{n-9}}{a_n^8}+\frac{665a_{n-1}^4a_{n-3}^3a_{n-6}}{a_n^8}+\frac{665a_{n-1}^3a_{n-2}^4a_{n-8}}{a_n^8}+\frac{665a_{n-1}^3a_{n-3}^4a_{n-4}}{a_n^8}+$$

$$\frac{665a_{n-1}a_{n-2}^3a_{n-3}^4}{a_n^8} - \frac{1064a_{n-1}^5a_{n-2}a_{n-4}^3}{a_n^9} - \frac{1064a_{n-1}^5a_{n-2}^3a_{n-8}}{a_n^9} - \frac{1064a_{n-1}^5a_{n-3}^3a_{n-5}}{a_n^9} - \frac{1064a_{n-1}^3a_{n-2}^5a_{n-6}}{a_n^9} + \frac{1596a_{n-1}^6a_{n-2}^3a_{n-7}}{a_n^{10}} + \frac{1596a_{n-1}^6a_{n-3}^3a_{n-4}}{a_n^{10}} + \frac{1596a_{n-1}^3a_{n-2}^6a_{n-4}}{a_n^{10}} - \frac{2280a_{n-1}^7a_{n-2}^3a_{n-6}}{a_n^{11}} + \frac{3135a_{n-1}^8a_{n-2}^3a_{n-5}}{a_n^{12}} + \frac{3135a_{n-1}^8a_{n-2}a_{n-3}^3}{a_n^{12}} - \frac{4180a_{n-1}^9a_{n-2}^3a_{n-4}}{a_n^{13}} + \frac{5434a_{n-1}^{10}a_{n-2}^3a_{n-3}}{a_n^{14}} - \frac{1330a_{n-1}^4a_{n-2}^4a_{n-7}}{a_n^9} + \frac{2394a_{n-1}^5a_{n-2}a_{n-3}^4}{a_n^{10}} + \frac{2394a_{n-1}^5a_{n-2}^4a_{n-6}}{a_n^{10}} - \frac{3990a_{n-1}^6a_{n-2}^4a_{n-5}}{a_n^{11}} - \frac{3990a_{n-1}^4a_{n-2}^6a_{n-3}}{a_n^{11}} + \frac{6270a_{n-1}^7a_{n-2}^4a_{n-4}}{a_n^{12}} - \frac{9405a_{n-1}^8a_{n-2}^4a_{n-3}}{a_n^{13}} + \frac{2394a_{n-1}^4a_{n-2}^5a_{n-5}}{a_n^{10}} - \frac{4788a_{n-1}^5a_{n-2}^5a_{n-4}}{a_n^{11}} + \frac{8778a_{n-1}^6a_{n-2}^5a_{n-3}}{a_n^{12}} - \frac{570a_{n-1}^3a_{n-2}^2a_{n-6}^2}{a_n^7} - \frac{570a_{n-1}^3a_{n-3}^2a_{n-5}^2}{a_n^7} - \frac{570a_{n-1}^2a_{n-3}^3a_{n-4}^2}{a_n^7} - \frac{1596a_{n-1}^5a_{n-2}^2a_{n-5}^2}{a_n^9} - \frac{1596a_{n-1}^5a_{n-3}^2a_{n-4}^2}{a_n^9} - \frac{3420a_{n-1}^7a_{n-2}^2a_{n-4}^2}{a_n^{11}} - \frac{6270a_{n-1}^9a_{n-2}^2a_{n-3}^2}{a_n^{13}} + \frac{1330a_{n-1}^3a_{n-2}^2a_{n-4}^3}{a_n^8} + \frac{1330a_{n-1}^3a_{n-2}^3a_{n-5}^2}{a_n^8} - \frac{2660a_{n-1}^3a_{n-2}^4a_{n-4}^2}{a_n^9} - \frac{2660a_{n-1}^3a_{n-2}^2a_{n-3}^4}{a_n^9} - \frac{2660a_{n-1}^2a_{n-2}^4a_{n-3}^3}{a_n^9} + \frac{4788a_{n-1}^5a_{n-2}^3a_{n-4}^2}{a_n^{10}} + \frac{4788a_{n-1}^3a_{n-2}^5a_{n-3}^2}{a_n^{10}} - \frac{7980a_{n-1}^6a_{n-2}^2a_{n-3}^3}{a_n^{11}} + \frac{12540a_{n-1}^7a_{n-2}^3a_{n-3}^2}{a_n^{12}} - \frac{11970a_{n-1}^5a_{n-2}^4a_{n-3}^2}{a_n^{11}} + \frac{7980a_{n-1}^4a_{n-2}^3a_{n-3}^3}{a_n^{10}} + \frac{114a_{n-1}a_{n-2}a_{n-3}a_{n-13}}{a_n^4} + \frac{114a_{n-1}a_{n-2}a_{n-4}a_{n-12}}{a_n^4} + \frac{114a_{n-1}a_{n-2}a_{n-5}a_{n-11}}{a_n^4} + \frac{114a_{n-1}a_{n-2}a_{n-6}a_{n-10}}{a_n^4} + \frac{114a_{n-1}a_{n-2}a_{n-7}a_{n-9}}{a_n^4} + \frac{114a_{n-1}a_{n-3}a_{n-4}a_{n-11}}{a_n^4} + \frac{114a_{n-1}a_{n-3}a_{n-5}a_{n-10}}{a_n^4} + \frac{114a_{n-1}a_{n-3}a_{n-6}a_{n-9}}{a_n^4} + \frac{114a_{n-1}a_{n-3}a_{n-7}a_{n-8}}{a_n^4} + \frac{114a_{n-1}a_{n-4}a_{n-5}a_{n-9}}{a_n^4} + \frac{114a_{n-1}a_{n-4}a_{n-6}a_{n-8}}{a_n^4} + \frac{114a_{n-1}a_{n-5}a_{n-6}a_{n-7}}{a_n^4} + \frac{114a_{n-2}a_{n-3}a_{n-4}a_{n-10}}{a_n^4} + \frac{114a_{n-2}a_{n-3}a_{n-5}a_{n-9}}{a_n^4} + \frac{114a_{n-2}a_{n-3}a_{n-6}a_{n-8}}{a_n^4} + \frac{114a_{n-2}a_{n-4}a_{n-5}a_{n-8}}{a_n^4} + \frac{114a_{n-2}a_{n-4}a_{n-6}a_{n-7}}{a_n^4} + \frac{114a_{n-3}a_{n-4}a_{n-5}a_{n-7}}{a_n^4} - \frac{228a_{n-1}^2a_{n-2}a_{n-3}a_{n-12}}{a_n^5} - \frac{228a_{n-1}^2a_{n-2}a_{n-4}a_{n-11}}{a_n^5} - \frac{228a_{n-1}^2a_{n-2}a_{n-5}a_{n-10}}{a_n^5} - \frac{228a_{n-1}^2a_{n-2}a_{n-6}a_{n-9}}{a_n^5} - \frac{228a_{n-1}^2a_{n-2}a_{n-7}a_{n-8}}{a_n^5} - \frac{228a_{n-1}^2a_{n-3}a_{n-4}a_{n-10}}{a_n^5} - \frac{228a_{n-1}^2a_{n-3}a_{n-5}a_{n-9}}{a_n^5} - \frac{228a_{n-1}^2a_{n-3}a_{n-6}a_{n-8}}{a_n^5} - \frac{228a_{n-1}^2a_{n-4}a_{n-5}a_{n-8}}{a_n^5} - \frac{228a_{n-1}^2a_{n-4}a_{n-6}a_{n-7}}{a_n^5} - \frac{228a_{n-1}a_{n-2}^2a_{n-3}a_{n-11}}{a_n^5} - \frac{228a_{n-1}a_{n-2}^2a_{n-4}a_{n-10}}{a_n^5} - \frac{228a_{n-1}a_{n-2}^2a_{n-5}a_{n-9}}{a_n^5} - \frac{228a_{n-1}a_{n-2}^2a_{n-6}a_{n-8}}{a_n^5} - \frac{228a_{n-1}a_{n-2}a_{n-3}^2a_{n-10}}{a_n^5} - \frac{228a_{n-1}a_{n-3}^2a_{n-4}a_{n-8}}{a_n^5} - \frac{228a_{n-1}a_{n-3}^2a_{n-5}a_{n-7}}{a_n^5} - \frac{228a_{n-1}a_{n-2}a_{n-4}^2a_{n-8}}{a_n^5} - \frac{228a_{n-1}a_{n-3}a_{n-4}^2a_{n-7}}{a_n^5} - \frac{228a_{n-1}a_{n-2}a_{n-5}^2a_{n-6}}{a_n^5} - \frac{228a_{n-1}a_{n-2}a_{n-4}a_{n-6}^2}{a_n^5} - \frac{228a_{n-2}^2a_{n-3}a_{n-4}a_{n-8}}{a_n^5} -$$

$$\frac{228a_{n-2}^2a_{n-3}a_{n-5}a_{n-7}}{a_n^5} - \frac{228a_{n-2}^2a_{n-4}a_{n-5}a_{n-6}}{a_n^5} - \frac{228a_{n-2}a_{n-3}^2a_{n-4}a_{n-7}}{a_n^5} -$$
$$\frac{228a_{n-2}a_{n-3}^2a_{n-5}a_{n-6}}{a_n^5} - \frac{228a_{n-2}a_{n-3}a_{n-4}^2a_{n-6}}{a_n^5} - \frac{228a_{n-2}a_{n-3}a_{n-4}a_{n-5}^2}{a_n^5} +$$
$$\frac{380a_{n-1}^3a_{n-2}a_{n-3}a_{n-11}}{a_n^6} + \frac{380a_{n-1}^3a_{n-2}a_{n-4}a_{n-10}}{a_n^6} + \frac{380a_{n-1}^3a_{n-2}a_{n-5}a_{n-9}}{a_n^6} +$$
$$\frac{380a_{n-1}^3a_{n-2}a_{n-6}a_{n-8}}{a_n^6} + \frac{380a_{n-1}^3a_{n-3}a_{n-4}a_{n-9}}{a_n^6} + \frac{380a_{n-1}^3a_{n-3}a_{n-5}a_{n-8}}{a_n^6} +$$
$$\frac{380a_{n-1}^3a_{n-3}a_{n-6}a_{n-7}}{a_n^6} + \frac{380a_{n-1}^3a_{n-4}a_{n-5}a_{n-7}}{a_n^6} + \frac{380a_{n-1}a_{n-2}^3a_{n-3}a_{n-9}}{a_n^6} +$$
$$\frac{380a_{n-1}a_{n-2}^3a_{n-4}a_{n-8}}{a_n^6} + \frac{380a_{n-1}a_{n-2}^3a_{n-5}a_{n-7}}{a_n^6} + \frac{380a_{n-1}a_{n-2}a_{n-3}^3a_{n-7}}{a_n^6} +$$
$$\frac{380a_{n-1}a_{n-3}^3a_{n-4}a_{n-5}}{a_n^6} + \frac{380a_{n-2}^3a_{n-3}a_{n-4}a_{n-6}}{a_n^6} - \frac{570a_{n-1}^4a_{n-2}a_{n-3}a_{n-10}}{a_n^7} -$$
$$\frac{570a_{n-1}^4a_{n-2}a_{n-4}a_{n-9}}{a_n^7} - \frac{570a_{n-1}^4a_{n-2}a_{n-5}a_{n-8}}{a_n^7} - \frac{570a_{n-1}^4a_{n-2}a_{n-6}a_{n-7}}{a_n^7} -$$
$$\frac{570a_{n-1}^4a_{n-3}a_{n-4}a_{n-8}}{a_n^7} - \frac{570a_{n-1}^4a_{n-3}a_{n-5}a_{n-7}}{a_n^7} - \frac{570a_{n-1}^4a_{n-4}a_{n-5}a_{n-6}}{a_n^7} -$$
$$\frac{570a_{n-1}a_{n-2}^4a_{n-3}a_{n-7}}{a_n^7} - \frac{570a_{n-1}a_{n-2}^4a_{n-4}a_{n-6}}{a_n^7} - \frac{570a_{n-1}a_{n-2}a_{n-3}^4a_{n-4}}{a_n^7} +$$
$$\frac{798a_{n-1}^5a_{n-2}a_{n-3}a_{n-9}}{a_n^8} + \frac{798a_{n-1}^5a_{n-2}a_{n-4}a_{n-8}}{a_n^8} + \frac{798a_{n-1}^5a_{n-2}a_{n-5}a_{n-7}}{a_n^8} +$$
$$\frac{798a_{n-1}^5a_{n-3}a_{n-4}a_{n-7}}{a_n^8} + \frac{798a_{n-1}^5a_{n-3}a_{n-5}a_{n-6}}{a_n^8} + \frac{798a_{n-1}a_{n-2}^5a_{n-3}a_{n-5}}{a_n^8} -$$
$$\frac{1064a_{n-1}^6a_{n-2}a_{n-3}a_{n-8}}{a_n^9} - \frac{1064a_{n-1}^6a_{n-2}a_{n-4}a_{n-7}}{a_n^9} - \frac{1064a_{n-1}^6a_{n-2}a_{n-5}a_{n-6}}{a_n^9} -$$
$$\frac{1064a_{n-1}^6a_{n-3}a_{n-4}a_{n-6}}{a_n^9} + \frac{1368a_{n-1}^7a_{n-2}a_{n-3}a_{n-7}}{a_n^{10}} + \frac{1368a_{n-1}^7a_{n-2}a_{n-4}a_{n-6}}{a_n^{10}} +$$
$$\frac{1368a_{n-1}^7a_{n-3}a_{n-4}a_{n-5}}{a_n^{10}} - \frac{1710a_{n-1}^8a_{n-2}a_{n-3}a_{n-6}}{a_n^{11}} - \frac{1710a_{n-1}^8a_{n-2}a_{n-4}a_{n-5}}{a_n^{11}} +$$
$$\frac{2090a_{n-1}^9a_{n-2}a_{n-3}a_{n-5}}{a_n^{12}} - \frac{2508a_{n-1}^{10}a_{n-2}a_{n-3}a_{n-4}}{a_n^{13}} + \frac{570a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-10}}{a_n^6} +$$
$$\frac{570a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-9}}{a_n^6} + \frac{570a_{n-1}^2a_{n-2}^2a_{n-5}a_{n-8}}{a_n^6} + \frac{570a_{n-1}^2a_{n-2}^2a_{n-6}a_{n-7}}{a_n^6} +$$
$$\frac{570a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-9}}{a_n^6} + \frac{570a_{n-1}^2a_{n-3}^2a_{n-4}a_{n-7}}{a_n^6} + \frac{570a_{n-1}^2a_{n-3}^2a_{n-5}a_{n-6}}{a_n^6} +$$
$$\frac{570a_{n-1}^2a_{n-2}a_{n-4}^2a_{n-7}}{a_n^6} + \frac{570a_{n-1}^2a_{n-3}a_{n-4}^2a_{n-6}}{a_n^6} + \frac{570a_{n-1}^2a_{n-3}a_{n-4}a_{n-5}^2}{a_n^6} +$$
$$\frac{570a_{n-1}^2a_{n-2}a_{n-3}a_{n-6}^2}{a_n^6} + \frac{570a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-8}}{a_n^6} + \frac{570a_{n-1}a_{n-2}^2a_{n-4}^2a_{n-6}}{a_n^6} +$$
$$\frac{570a_{n-1}a_{n-2}^2a_{n-4}a_{n-5}^2}{a_n^6} + \frac{570a_{n-1}a_{n-2}a_{n-3}^2a_{n-5}^2}{a_n^6} + \frac{570a_{n-2}^2a_{n-3}^2a_{n-4}a_{n-5}}{a_n^6} -$$
$$\frac{1140a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-9}}{a_n^7} - \frac{1140a_{n-1}^3a_{n-2}^2a_{n-4}a_{n-8}}{a_n^7} - \frac{1140a_{n-1}^3a_{n-2}^2a_{n-5}a_{n-7}}{a_n^7} -$$
$$\frac{1140a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-8}}{a_n^7} - \frac{1140a_{n-1}^3a_{n-3}^2a_{n-4}a_{n-6}}{a_n^7} - \frac{1140a_{n-1}^3a_{n-2}a_{n-4}^2a_{n-6}}{a_n^7} -$$
$$\frac{1140a_{n-1}^3a_{n-3}a_{n-4}^2a_{n-5}}{a_n^7} - \frac{1140a_{n-1}^3a_{n-2}a_{n-4}a_{n-5}^2}{a_n^7} - \frac{1140a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-8}}{a_n^7} -$$

$$\frac{1140a_{n-1}^2a_{n-2}^3a_{n-4}a_{n-7}}{a_n^7} - \frac{1140a_{n-1}^2a_{n-2}^3a_{n-5}a_{n-6}}{a_n^7} - \frac{1140a_{n-1}^2a_{n-2}a_{n-3}^3a_{n-6}}{a_n^7} - \frac{1140a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}^3}{a_n^7} - \frac{1140a_{n-1}a_{n-2}^3a_{n-3}^2a_{n-6}}{a_n^7} - \frac{1140a_{n-1}a_{n-2}^3a_{n-4}^2a_{n-6}}{a_n^7} - \frac{1140a_{n-1}a_{n-2}^2a_{n-3}^3a_{n-5}}{a_n^7} + \frac{1995a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-8}}{a_n^7} + \frac{1995a_{n-1}^4a_{n-2}^2a_{n-4}a_{n-7}}{a_n^8} + \frac{1995a_{n-1}^4a_{n-2}^2a_{n-5}a_{n-6}}{a_n^8} + \frac{1995a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-7}}{a_n^8} + \frac{1995a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^8} + \frac{1995a_{n-1}^4a_{n-2}a_{n-4}^2a_{n-5}}{a_n^8} + \frac{1995a_{n-1}^4a_{n-2}a_{n-3}a_{n-5}^2}{a_n^8} + \frac{1995a_{n-1}^2a_{n-2}^4a_{n-3}a_{n-6}}{a_n^8} + \frac{1995a_{n-1}^2a_{n-2}^4a_{n-4}a_{n-5}}{a_n^8} + \frac{1995a_{n-1}a_{n-2}^4a_{n-3}^2a_{n-4}}{a_n^8} - \frac{3192a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-7}}{a_n^9} - \frac{3192a_{n-1}^5a_{n-2}^2a_{n-4}a_{n-6}}{a_n^9} - \frac{3192a_{n-1}^5a_{n-2}a_{n-3}^2a_{n-6}}{a_n^9} - \frac{3192a_{n-1}^2a_{n-2}^5a_{n-3}a_{n-4}}{a_n^9} + \frac{4788a_{n-1}^6a_{n-2}^2a_{n-3}a_{n-6}}{a_n^{10}} + \frac{4788a_{n-1}^6a_{n-2}^2a_{n-4}a_{n-5}}{a_n^{10}} + \frac{4788a_{n-1}^6a_{n-2}a_{n-3}^2a_{n-5}}{a_n^{10}} + \frac{4788a_{n-1}^6a_{n-2}a_{n-3}a_{n-4}^2}{a_n^{10}} - \frac{6840a_{n-1}^7a_{n-2}^2a_{n-3}a_{n-5}}{a_n^{11}} - \frac{6840a_{n-1}^7a_{n-2}a_{n-3}^2a_{n-4}}{a_n^{11}} + \frac{9405a_{n-1}^8a_{n-2}^2a_{n-3}a_{n-4}}{a_n^{12}} + \frac{2660a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-7}}{a_n^8} + \frac{2660a_{n-1}^3a_{n-2}^3a_{n-4}a_{n-6}}{a_n^8} + \frac{2660a_{n-1}^3a_{n-2}a_{n-3}^3a_{n-5}}{a_n^8} - \frac{5320a_{n-1}^4a_{n-2}^3a_{n-3}a_{n-6}}{a_n^9} - \frac{5320a_{n-1}^4a_{n-2}^3a_{n-4}a_{n-5}}{a_n^9} - \frac{5320a_{n-1}^4a_{n-2}a_{n-3}^3a_{n-4}}{a_n^9} - \frac{5320a_{n-1}^3a_{n-2}^4a_{n-3}a_{n-5}}{a_n^9} + \frac{9576a_{n-1}^5a_{n-2}^3a_{n-3}a_{n-5}}{a_n^{10}} - \frac{15960a_{n-1}^6a_{n-2}^3a_{n-3}a_{n-4}}{a_n^{11}} + \frac{11970a_{n-1}^4a_{n-2}^4a_{n-3}a_{n-4}}{a_n^{10}} - \frac{1710a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-7}}{a_n^7} - \frac{1710a_{n-1}^2a_{n-2}^2a_{n-4}^2a_{n-5}}{a_n^7} - \frac{1710a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-5}^2}{a_n^7} - \frac{1710a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-4}^2}{a_n^7} + \frac{3990a_{n-1}^3a_{n-2}^2a_{n-3}^2a_{n-6}}{a_n^8} + \frac{3990a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-4}^2}{a_n^8} + \frac{3990a_{n-1}^2a_{n-2}^3a_{n-3}^2a_{n-5}}{a_n^8} + \frac{3990a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-4}^2}{a_n^8} + \frac{3990a_{n-1}^2a_{n-2}^2a_{n-3}^3a_{n-4}}{a_n^8} - \frac{7980a_{n-1}^4a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^9} - \frac{7980a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-4}^2}{a_n^9} - \frac{10640a_{n-1}^3a_{n-2}^3a_{n-3}^2a_{n-4}}{a_n^9} + \frac{14364a_{n-1}^5a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^{10}} - \frac{456a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-9}}{a_n^5} - \frac{456a_{n-1}a_{n-2}a_{n-3}a_{n-5}a_{n-8}}{a_n^5} - \frac{456a_{n-1}a_{n-2}a_{n-3}a_{n-6}a_{n-7}}{a_n^5} - \frac{456a_{n-1}a_{n-2}a_{n-4}a_{n-5}a_{n-7}}{a_n^5} - \frac{456a_{n-1}a_{n-3}a_{n-4}a_{n-5}a_{n-6}}{a_n^5} + \frac{1140a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}a_{n-8}}{a_n^6} + \frac{1140a_{n-1}^2a_{n-2}a_{n-3}a_{n-5}a_{n-7}}{a_n^6} + \frac{1140a_{n-1}^2a_{n-2}a_{n-4}a_{n-5}a_{n-6}}{a_n^6} + \frac{1140a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}a_{n-7}}{a_n^6} + \frac{1140a_{n-1}a_{n-2}^2a_{n-3}a_{n-5}a_{n-6}}{a_n^6} + \frac{1140a_{n-1}a_{n-2}a_{n-3}^2a_{n-4}a_{n-6}}{a_n^6} + \frac{1140a_{n-1}a_{n-2}a_{n-3}a_{n-4}^2a_{n-5}}{a_n^6} - \frac{2280a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}a_{n-7}}{a_n^7} - \frac{2280a_{n-1}^3a_{n-2}a_{n-3}a_{n-5}a_{n-6}}{a_n^7} - \frac{2280a_{n-1}a_{n-2}^3a_{n-3}a_{n-4}a_{n-5}}{a_n^7} +$$

$$\frac{3990a_{n-1}^4a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^8} - \frac{6384a_{n-1}^5a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^9} - \frac{3420a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}a_{n-6}}{a_n^7} - \frac{3420a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^7} + \frac{7980a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^8}$$

$$\sum_{k=1}^{n} Z_k^{20} = -\frac{20a_{n-20}}{a_n} + \frac{10a_{n-10}^2}{a_n^2} + \frac{5a_{n-5}^4}{a_n^4} - \frac{4a_{n-4}^5}{a_n^5} + \frac{2a_{n-2}^{10}}{a_n^{10}} + \frac{a_{n-1}^{20}}{a_n^{20}} + \frac{20a_{n-1}a_{n-19}}{a_n^2} + \frac{20a_{n-2}a_{n-18}}{a_n^2} + \frac{20a_{n-3}a_{n-17}}{a_n^2} + \frac{20a_{n-4}a_{n-16}}{a_n^2} + \frac{20a_{n-5}a_{n-15}}{a_n^2} + \frac{20a_{n-6}a_{n-14}}{a_n^2} + \frac{20a_{n-7}a_{n-13}}{a_n^2} + \frac{20a_{n-8}a_{n-12}}{a_n^2} + \frac{20a_{n-9}a_{n-11}}{a_n^2} - \frac{20a_{n-1}^2a_{n-18}}{a_n^3} - \frac{20a_{n-4}a_{n-8}^2}{a_n^3} - \frac{20a_{n-2}^2a_{n-16}}{a_n^3} - \frac{20a_{n-3}^2a_{n-14}}{a_n^3} - \frac{20a_{n-4}^2a_{n-12}}{a_n^3} - \frac{20a_{n-5}^2a_{n-10}}{a_n^3} - \frac{20a_{n-6}^2a_{n-8}}{a_n^3} - \frac{20a_{n-6}a_{n-7}^2}{a_n^3} - \frac{20a_{n-2}a_{n-9}^2}{a_n^3} + \frac{20a_{n-1}^3a_{n-17}}{a_n^4} + \frac{20a_{n-2}^3a_{n-14}}{a_n^4} + \frac{20a_{n-3}^3a_{n-11}}{a_n^4} + \frac{20a_{n-4}^3a_{n-8}}{a_n^4} + \frac{20a_{n-2}a_{n-6}^3}{a_n^4} - \frac{20a_{n-1}^4a_{n-16}}{a_n^5} - \frac{20a_{n-2}^4a_{n-12}}{a_n^5} - \frac{20a_{n-3}^4a_{n-8}}{a_n^5} + \frac{20a_{n-1}^5a_{n-15}}{a_n^6} + \frac{20a_{n-2}^5a_{n-10}}{a_n^6} + \frac{20a_{n-3}^5a_{n-5}}{a_n^6} - \frac{20a_{n-1}^6a_{n-14}}{a_n^7} - \frac{20a_{n-2}^6a_{n-8}}{a_n^7} - \frac{20a_{n-2}a_{n-3}^6}{a_n^7} + \frac{20a_{n-1}^7a_{n-13}}{a_n^8} + \frac{20a_{n-2}^7a_{n-6}}{a_n^8} - \frac{20a_{n-1}^8a_{n-12}}{a_n^9} - \frac{20a_{n-2}^8a_{n-4}}{a_n^9} + \frac{20a_{n-1}^9a_{n-11}}{a_n^{10}} - \frac{20a_{n-1}^{10}a_{n-10}}{a_n^{11}} + \frac{20a_{n-1}^{11}a_{n-9}}{a_n^{12}} - \frac{20a_{n-1}^{12}a_{n-8}}{a_n^{13}} + \frac{20a_{n-1}^{13}a_{n-7}}{a_n^{14}} - \frac{20a_{n-1}^{14}a_{n-6}}{a_n^{15}} + \frac{20a_{n-1}^{15}a_{n-5}}{a_n^{16}} - \frac{20a_{n-1}^{16}a_{n-4}}{a_n^{17}} + \frac{20a_{n-1}^{17}a_{n-3}}{a_n^{18}} - \frac{20a_{n-1}^{18}a_{n-2}}{a_n^{19}} + \frac{30a_{n-1}^2a_{n-9}^2}{a_n^4} + \frac{30a_{n-2}^2a_{n-8}^2}{a_n^4} + \frac{30a_{n-3}^2a_{n-7}^2}{a_n^4} + \frac{30a_{n-4}^2a_{n-6}^2}{a_n^4} - \frac{40a_{n-1}^2a_{n-6}^3}{a_n^5} - \frac{40a_{n-2}^3a_{n-7}^2}{a_n^5} + \frac{50a_{n-1}^4a_{n-8}^2}{a_n^6} + \frac{50a_{n-2}^4a_{n-6}^2}{a_n^6} + \frac{50a_{n-3}^4a_{n-4}^2}{a_n^6} + \frac{50a_{n-2}^2a_{n-4}^4}{a_n^6} - \frac{60a_{n-2}^5a_{n-5}^2}{a_n^7} + \frac{70a_{n-1}^6a_{n-7}^2}{a_n^8} + \frac{70a_{n-1}^2a_{n-3}^6}{a_n^8} + \frac{70a_{n-2}^6a_{n-4}^2}{a_n^8} - \frac{80a_{n-2}^7a_{n-3}^2}{a_n^9} + \frac{90a_{n-1}^8a_{n-6}^2}{a_n^{10}} - \frac{100a_{n-1}^2a_{n-2}^9}{a_n^{11}} + \frac{110a_{n-1}^{10}a_{n-5}^2}{a_n^{12}} + \frac{130a_{n-1}^{12}a_{n-4}^2}{a_n^{14}} + \frac{150a_{n-1}^{14}a_{n-3}^2}{a_n^{16}} + \frac{170a_{n-1}^{16}a_{n-2}^2}{a_n^{18}} - \frac{100a_{n-2}^4a_{n-4}^3}{a_n^7} + \frac{140a_{n-1}^5a_{n-5}^3}{a_n^8} - \frac{300a_{n-1}^8a_{n-4}^3}{a_n^{11}} + \frac{520a_{n-1}^{11}a_{n-3}^3}{a_n^{14}} - \frac{800a_{n-1}^{14}a_{n-2}^3}{a_n^{17}} + \frac{175a_{n-1}^4a_{n-4}^4}{a_n^8} + \frac{175a_{n-2}^4a_{n-3}^4}{a_n^8} + \frac{825a_{n-1}^8a_{n-3}^4}{a_n^{12}} + \frac{825a_{n-1}^4a_{n-2}^8}{a_n^{12}} + \frac{2275a_{n-1}^{12}a_{n-2}^4}{a_n^{16}} + \frac{504a_{n-1}^5a_{n-3}^5}{a_n^{10}} - \frac{4004a_{n-1}^{10}a_{n-2}^5}{a_n^{15}} - \frac{2640a_{n-1}^6a_{n-2}^7}{a_n^{13}} + \frac{4290a_{n-1}^8a_{n-2}^6}{a_n^{14}} - \frac{40a_{n-1}a_{n-2}a_{n-17}}{a_n^3} - \frac{40a_{n-1}a_{n-3}a_{n-16}}{a_n^3} - \frac{40a_{n-1}a_{n-4}a_{n-15}}{a_n^3} - \frac{40a_{n-1}a_{n-5}a_{n-14}}{a_n^3} - \frac{40a_{n-1}a_{n-6}a_{n-13}}{a_n^3} - \frac{40a_{n-1}a_{n-7}a_{n-12}}{a_n^3} - \frac{40a_{n-1}a_{n-8}a_{n-11}}{a_n^3} - \frac{40a_{n-1}a_{n-9}a_{n-10}}{a_n^3} - \frac{40a_{n-2}a_{n-3}a_{n-15}}{a_n^3} - \frac{40a_{n-2}a_{n-4}a_{n-14}}{a_n^3} - \frac{40a_{n-2}a_{n-5}a_{n-13}}{a_n^3} - \frac{40a_{n-2}a_{n-6}a_{n-12}}{a_n^3} - \frac{40a_{n-2}a_{n-7}a_{n-11}}{a_n^3} - \frac{40a_{n-2}a_{n-8}a_{n-10}}{a_n^3} - \frac{40a_{n-3}a_{n-4}a_{n-13}}{a_n^3} -$$

$$\frac{40a_{n-3}a_{n-5}a_{n-12}}{a_n^3} - \frac{40a_{n-3}a_{n-6}a_{n-11}}{a_n^3} - \frac{40a_{n-3}a_{n-7}a_{n-10}}{a_n^3} - \frac{40a_{n-3}a_{n-8}a_{n-9}}{a_n^3} -$$
$$\frac{40a_{n-4}a_{n-5}a_{n-11}}{a_n^3} - \frac{40a_{n-4}a_{n-6}a_{n-10}}{a_n^3} - \frac{40a_{n-4}a_{n-7}a_{n-9}}{a_n^3} - \frac{40a_{n-5}a_{n-6}a_{n-9}}{a_n^3} -$$
$$\frac{40a_{n-5}a_{n-7}a_{n-8}}{a_n^3} + \frac{60a_{n-1}^2a_{n-2}a_{n-16}}{a_n^4} + \frac{60a_{n-1}^2a_{n-3}a_{n-15}}{a_n^4} + \frac{60a_{n-1}^2a_{n-4}a_{n-14}}{a_n^4} +$$
$$\frac{60a_{n-1}^2a_{n-5}a_{n-13}}{a_n^4} + \frac{60a_{n-1}^2a_{n-6}a_{n-12}}{a_n^4} + \frac{60a_{n-1}^2a_{n-7}a_{n-11}}{a_n^4} + \frac{60a_{n-1}^2a_{n-8}a_{n-10}}{a_n^4} +$$
$$\frac{60a_{n-1}a_{n-3}a_{n-8}^2}{a_n^4} + \frac{60a_{n-1}a_{n-2}^2a_{n-15}}{a_n^4} + \frac{60a_{n-1}a_{n-3}^2a_{n-13}}{a_n^4} + \frac{60a_{n-1}a_{n-4}^2a_{n-11}}{a_n^4} +$$
$$\frac{60a_{n-1}a_{n-5}^2a_{n-9}}{a_n^4} + \frac{60a_{n-1}a_{n-6}^2a_{n-7}}{a_n^4} + \frac{60a_{n-1}a_{n-5}a_{n-7}^2}{a_n^4} + \frac{60a_{n-2}^2a_{n-3}a_{n-13}}{a_n^4} +$$
$$\frac{60a_{n-2}^2a_{n-4}a_{n-12}}{a_n^4} + \frac{60a_{n-2}^2a_{n-5}a_{n-11}}{a_n^4} + \frac{60a_{n-2}^2a_{n-6}a_{n-10}}{a_n^4} + \frac{60a_{n-2}^2a_{n-7}a_{n-9}}{a_n^4} +$$
$$\frac{60a_{n-2}a_{n-3}^2a_{n-12}}{a_n^4} + \frac{60a_{n-3}^2a_{n-4}a_{n-10}}{a_n^4} + \frac{60a_{n-3}^2a_{n-5}a_{n-9}}{a_n^4} + \frac{60a_{n-3}^2a_{n-6}a_{n-8}}{a_n^4} +$$
$$\frac{60a_{n-2}a_{n-4}^2a_{n-10}}{a_n^4} + \frac{60a_{n-3}a_{n-4}^2a_{n-9}}{a_n^4} + \frac{60a_{n-4}^2a_{n-5}a_{n-7}}{a_n^4} + \frac{60a_{n-2}a_{n-5}^2a_{n-8}}{a_n^4} +$$
$$\frac{60a_{n-3}a_{n-5}^2a_{n-7}}{a_n^4} + \frac{60a_{n-4}a_{n-5}^2a_{n-6}}{a_n^4} + \frac{60a_{n-3}a_{n-5}a_{n-6}^2}{a_n^4} + \frac{60a_{n-2}a_{n-4}a_{n-7}^2}{a_n^4} -$$
$$\frac{80a_{n-1}^3a_{n-2}a_{n-15}}{a_n^5} - \frac{80a_{n-1}^3a_{n-3}a_{n-14}}{a_n^5} - \frac{80a_{n-1}^3a_{n-4}a_{n-13}}{a_n^5} - \frac{80a_{n-1}^3a_{n-5}a_{n-12}}{a_n^5} -$$
$$\frac{80a_{n-1}^3a_{n-6}a_{n-11}}{a_n^5} - \frac{80a_{n-1}^3a_{n-7}a_{n-10}}{a_n^5} - \frac{80a_{n-1}^3a_{n-8}a_{n-9}}{a_n^5} - \frac{80a_{n-1}a_{n-2}^3a_{n-13}}{a_n^5} -$$
$$\frac{80a_{n-1}a_{n-3}^3a_{n-10}}{a_n^5} - \frac{80a_{n-1}a_{n-4}^3a_{n-7}}{a_n^5} - \frac{80a_{n-1}a_{n-4}a_{n-5}^3}{a_n^5} - \frac{80a_{n-2}^3a_{n-3}a_{n-11}}{a_n^5} -$$
$$\frac{80a_{n-2}^3a_{n-4}a_{n-10}}{a_n^5} - \frac{80a_{n-2}^3a_{n-5}a_{n-9}}{a_n^5} - \frac{80a_{n-2}^3a_{n-6}a_{n-8}}{a_n^5} - \frac{80a_{n-2}a_{n-3}^3a_{n-9}}{a_n^5} -$$
$$\frac{80a_{n-3}^3a_{n-4}a_{n-7}}{a_n^5} - \frac{80a_{n-3}^3a_{n-5}a_{n-6}}{a_n^5} - \frac{80a_{n-2}a_{n-4}^3a_{n-6}}{a_n^5} - \frac{80a_{n-3}a_{n-4}^3a_{n-5}}{a_n^5} -$$
$$\frac{80a_{n-2}a_{n-3}a_{n-5}^3}{a_n^5} + \frac{100a_{n-1}^4a_{n-2}a_{n-14}}{a_n^6} + \frac{100a_{n-1}^4a_{n-3}a_{n-13}}{a_n^6} + \frac{100a_{n-1}^4a_{n-4}a_{n-12}}{a_n^6} +$$
$$\frac{100a_{n-1}^4a_{n-5}a_{n-11}}{a_n^6} + \frac{100a_{n-1}^4a_{n-6}a_{n-10}}{a_n^6} + \frac{100a_{n-1}^4a_{n-7}a_{n-9}}{a_n^6} + \frac{100a_{n-1}a_{n-3}^4a_{n-7}}{a_n^6} +$$
$$\frac{100a_{n-1}a_{n-3}a_{n-4}^4}{a_n^6} + \frac{100a_{n-1}a_{n-2}^4a_{n-11}}{a_n^6} + \frac{100a_{n-2}^4a_{n-3}a_{n-9}}{a_n^6} + \frac{100a_{n-2}^4a_{n-4}a_{n-8}}{a_n^6} +$$
$$\frac{100a_{n-2}^4a_{n-5}a_{n-7}}{a_n^6} + \frac{100a_{n-2}a_{n-3}^4a_{n-6}}{a_n^6} - \frac{120a_{n-1}^5a_{n-2}a_{n-13}}{a_n^7} - \frac{120a_{n-1}^5a_{n-3}a_{n-12}}{a_n^7} -$$
$$\frac{120a_{n-1}^5a_{n-4}a_{n-11}}{a_n^7} - \frac{120a_{n-1}^5a_{n-5}a_{n-10}}{a_n^7} - \frac{120a_{n-1}^5a_{n-6}a_{n-9}}{a_n^7} - \frac{120a_{n-1}^5a_{n-7}a_{n-8}}{a_n^7} -$$
$$\frac{120a_{n-1}a_{n-2}^5a_{n-9}}{a_n^7} - \frac{120a_{n-1}a_{n-3}^5a_{n-4}}{a_n^7} - \frac{120a_{n-2}^5a_{n-3}a_{n-7}}{a_n^7} - \frac{120a_{n-2}^5a_{n-4}a_{n-6}}{a_n^7} +$$
$$\frac{140a_{n-1}^6a_{n-2}a_{n-12}}{a_n^8} + \frac{140a_{n-1}^6a_{n-3}a_{n-11}}{a_n^8} + \frac{140a_{n-1}^6a_{n-4}a_{n-10}}{a_n^8} + \frac{140a_{n-1}^6a_{n-5}a_{n-9}}{a_n^8} +$$
$$\frac{140a_{n-1}^6a_{n-6}a_{n-8}}{a_n^8} + \frac{140a_{n-1}a_{n-2}^6a_{n-7}}{a_n^8} + \frac{140a_{n-2}^6a_{n-3}a_{n-5}}{a_n^8} - \frac{160a_{n-1}^7a_{n-2}a_{n-11}}{a_n^9} -$$
$$\frac{160a_{n-1}^7a_{n-3}a_{n-10}}{a_n^9} - \frac{160a_{n-1}^7a_{n-4}a_{n-9}}{a_n^9} - \frac{160a_{n-1}^7a_{n-5}a_{n-8}}{a_n^9} - \frac{160a_{n-1}^7a_{n-6}a_{n-7}}{a_n^9} -$$

$$\frac{160a_{n-1}a_{n-2}^{7}a_{n-5}}{a_n^9}+\frac{180a_{n-1}^{8}a_{n-2}a_{n-10}}{a_n^{10}}+\frac{180a_{n-1}^{8}a_{n-3}a_{n-9}}{a_n^{10}}+\frac{180a_{n-1}^{8}a_{n-4}a_{n-8}}{a_n^{10}}+$$
$$\frac{180a_{n-1}^{8}a_{n-5}a_{n-7}}{a_n^{10}}+\frac{180a_{n-1}a_{n-2}^{8}a_{n-3}}{a_n^{10}}-\frac{200a_{n-1}^{9}a_{n-2}a_{n-9}}{a_n^{11}}-\frac{200a_{n-1}^{9}a_{n-3}a_{n-8}}{a_n^{11}}-$$
$$\frac{200a_{n-1}^{9}a_{n-4}a_{n-7}}{a_n^{11}}-\frac{200a_{n-1}^{9}a_{n-5}a_{n-6}}{a_n^{11}}+\frac{220a_{n-1}^{10}a_{n-2}a_{n-8}}{a_n^{12}}+\frac{220a_{n-1}^{10}a_{n-3}a_{n-7}}{a_n^{12}}+$$
$$\frac{220a_{n-1}^{10}a_{n-4}a_{n-6}}{a_n^{12}}-\frac{240a_{n-1}^{11}a_{n-2}a_{n-7}}{a_n^{13}}-\frac{240a_{n-1}^{11}a_{n-3}a_{n-6}}{a_n^{13}}-\frac{240a_{n-1}^{11}a_{n-4}a_{n-5}}{a_n^{13}}+$$
$$\frac{260a_{n-1}^{12}a_{n-2}a_{n-6}}{a_n^{14}}+\frac{260a_{n-1}^{12}a_{n-3}a_{n-5}}{a_n^{14}}-\frac{280a_{n-1}^{13}a_{n-2}a_{n-5}}{a_n^{15}}-\frac{280a_{n-1}^{13}a_{n-3}a_{n-4}}{a_n^{15}}+$$
$$\frac{300a_{n-1}^{14}a_{n-2}a_{n-4}}{a_n^{16}}-\frac{320a_{n-1}^{15}a_{n-2}a_{n-3}}{a_n^{17}}-\frac{120a_{n-1}^{2}a_{n-2}a_{n-8}^{2}}{a_n^{5}}-\frac{120a_{n-1}^{2}a_{n-2}^{2}a_{n-14}}{a_n^{5}}-$$
$$\frac{120a_{n-1}^{2}a_{n-3}^{2}a_{n-12}}{a_n^{5}}-\frac{120a_{n-1}^{2}a_{n-4}^{2}a_{n-10}}{a_n^{5}}-\frac{120a_{n-1}^{2}a_{n-5}^{2}a_{n-8}}{a_n^{5}}-\frac{120a_{n-1}^{2}a_{n-4}a_{n-7}^{2}}{a_n^{5}}-$$
$$\frac{120a_{n-2}^{2}a_{n-3}^{2}a_{n-10}}{a_n^{5}}-\frac{120a_{n-2}^{2}a_{n-4}^{2}a_{n-8}}{a_n^{5}}-\frac{120a_{n-2}^{2}a_{n-5}^{2}a_{n-6}}{a_n^{5}}-\frac{120a_{n-2}^{2}a_{n-4}a_{n-6}^{2}}{a_n^{5}}-$$
$$\frac{120a_{n-3}^{2}a_{n-4}^{2}a_{n-6}}{a_n^{5}}-\frac{120a_{n-3}^{2}a_{n-4}a_{n-5}^{2}}{a_n^{5}}-\frac{120a_{n-2}a_{n-3}^{2}a_{n-6}^{2}}{a_n^{5}}-\frac{120a_{n-2}a_{n-4}^{2}a_{n-5}^{2}}{a_n^{5}}+$$
$$\frac{200a_{n-1}^{3}a_{n-5}a_{n-6}^{2}}{a_n^{6}}+\frac{200a_{n-1}^{3}a_{n-2}^{2}a_{n-13}}{a_n^{6}}+\frac{200a_{n-1}^{3}a_{n-3}^{2}a_{n-11}}{a_n^{6}}+\frac{200a_{n-1}^{3}a_{n-4}^{2}a_{n-9}}{a_n^{6}}+$$
$$\frac{200a_{n-1}^{3}a_{n-5}^{2}a_{n-7}}{a_n^{6}}+\frac{200a_{n-1}^{3}a_{n-3}a_{n-7}^{2}}{a_n^{6}}+\frac{200a_{n-1}^{2}a_{n-2}^{3}a_{n-12}}{a_n^{6}}+\frac{200a_{n-1}^{2}a_{n-3}^{3}a_{n-9}}{a_n^{6}}+$$
$$\frac{200a_{n-1}^{2}a_{n-4}^{3}a_{n-6}}{a_n^{6}}+\frac{200a_{n-1}^{2}a_{n-3}a_{n-5}^{3}}{a_n^{6}}+\frac{200a_{n-1}a_{n-3}^{3}a_{n-5}^{2}}{a_n^{6}}+\frac{200a_{n-1}a_{n-2}^{2}a_{n-5}^{3}}{a_n^{6}}+$$
$$\frac{200a_{n-2}^{3}a_{n-3}^{2}a_{n-8}}{a_n^{6}}+\frac{200a_{n-2}^{3}a_{n-4}^{2}a_{n-6}}{a_n^{6}}+\frac{200a_{n-2}^{3}a_{n-4}a_{n-5}^{2}}{a_n^{6}}+\frac{200a_{n-2}^{2}a_{n-3}^{3}a_{n-7}}{a_n^{6}}+$$
$$\frac{200a_{n-2}a_{n-3}^{2}a_{n-4}^{3}}{a_n^{6}}-\frac{300a_{n-1}^{4}a_{n-4}a_{n-6}^{2}}{a_n^{7}}-\frac{300a_{n-1}^{4}a_{n-2}^{2}a_{n-12}}{a_n^{7}}-\frac{300a_{n-1}^{4}a_{n-3}^{2}a_{n-10}}{a_n^{7}}-$$
$$\frac{300a_{n-1}^{4}a_{n-4}^{2}a_{n-8}}{a_n^{7}}-\frac{300a_{n-1}^{4}a_{n-5}^{2}a_{n-6}}{a_n^{7}}-\frac{300a_{n-1}^{4}a_{n-2}a_{n-7}^{2}}{a_n^{7}}-\frac{300a_{n-1}^{2}a_{n-2}a_{n-4}^{4}}{a_n^{7}}-$$
$$\frac{300a_{n-1}^{2}a_{n-2}^{4}a_{n-10}}{a_n^{7}}-\frac{300a_{n-1}^{2}a_{n-3}^{4}a_{n-6}}{a_n^{7}}-\frac{300a_{n-2}^{4}a_{n-3}^{2}a_{n-6}}{a_n^{7}}-\frac{300a_{n-2}^{2}a_{n-3}^{4}a_{n-4}}{a_n^{7}}+$$
$$\frac{420a_{n-1}^{5}a_{n-3}a_{n-6}^{2}}{a_n^{8}}+\frac{420a_{n-1}^{5}a_{n-2}^{2}a_{n-11}}{a_n^{8}}+\frac{420a_{n-1}^{5}a_{n-3}^{2}a_{n-9}}{a_n^{8}}+\frac{420a_{n-1}^{5}a_{n-4}^{2}a_{n-7}}{a_n^{8}}+$$
$$\frac{420a_{n-1}^{2}a_{n-2}^{5}a_{n-8}}{a_n^{8}}+\frac{420a_{n-1}a_{n-2}^{2}a_{n-3}^{5}}{a_n^{8}}+\frac{420a_{n-2}^{5}a_{n-3}^{2}a_{n-4}}{a_n^{8}}-\frac{560a_{n-1}^{6}a_{n-2}^{2}a_{n-10}}{a_n^{9}}-$$
$$\frac{560a_{n-1}^{6}a_{n-3}^{2}a_{n-8}}{a_n^{9}}-\frac{560a_{n-1}^{6}a_{n-4}^{2}a_{n-6}}{a_n^{9}}-\frac{560a_{n-1}^{6}a_{n-4}a_{n-5}^{2}}{a_n^{9}}-\frac{560a_{n-1}^{6}a_{n-2}a_{n-6}^{2}}{a_n^{9}}-$$
$$\frac{560a_{n-1}^{2}a_{n-2}^{6}a_{n-6}}{a_n^{9}}+\frac{720a_{n-1}^{7}a_{n-2}^{2}a_{n-9}}{a_n^{10}}+\frac{720a_{n-1}^{7}a_{n-3}^{2}a_{n-7}}{a_n^{10}}+\frac{720a_{n-1}^{7}a_{n-4}^{2}a_{n-5}}{a_n^{10}}+$$
$$\frac{720a_{n-1}^{7}a_{n-3}a_{n-5}^{2}}{a_n^{10}}+\frac{720a_{n-1}^{2}a_{n-2}^{7}a_{n-4}}{a_n^{10}}-\frac{900a_{n-1}^{8}a_{n-2}^{2}a_{n-8}}{a_n^{11}}-\frac{900a_{n-1}^{8}a_{n-3}^{2}a_{n-6}}{a_n^{11}}-$$
$$\frac{900a_{n-1}^{8}a_{n-2}a_{n-5}^{2}}{a_n^{11}}+\frac{1100a_{n-1}^{9}a_{n-2}^{2}a_{n-7}}{a_n^{12}}+\frac{1100a_{n-1}^{9}a_{n-3}^{2}a_{n-5}}{a_n^{12}}+\frac{1100a_{n-1}^{9}a_{n-3}a_{n-4}^{2}}{a_n^{12}}-$$
$$\frac{1320a_{n-1}^{10}a_{n-2}^{2}a_{n-6}}{a_n^{13}}-\frac{1320a_{n-1}^{10}a_{n-3}^{2}a_{n-4}}{a_n^{13}}-\frac{1320a_{n-1}^{10}a_{n-2}a_{n-4}^{2}}{a_n^{13}}+\frac{1560a_{n-1}^{11}a_{n-2}^{2}a_{n-5}}{a_n^{14}}-$$
$$\frac{1820a_{n-1}^{12}a_{n-2}^{2}a_{n-4}}{a_n^{15}}-\frac{1820a_{n-1}^{12}a_{n-2}a_{n-3}^{2}}{a_n^{15}}+\frac{2100a_{n-1}^{13}a_{n-2}^{2}a_{n-3}}{a_n^{16}}-\frac{400a_{n-1}^{3}a_{n-2}^{3}a_{n-11}}{a_n^{7}}-$$

$$\frac{400a_{n-1}^3a_{n-3}^3a_{n-8}}{a_n^7}-\frac{400a_{n-1}^3a_{n-4}^3a_{n-5}}{a_n^7}-\frac{400a_{n-1}^3a_{n-2}a_{n-5}^3}{a_n^7}-\frac{400a_{n-2}^3a_{n-3}^3a_{n-5}}{a_n^7}+$$
$$\frac{700a_{n-1}^4a_{n-2}^3a_{n-10}}{a_n^8}+\frac{700a_{n-1}^4a_{n-3}^3a_{n-7}}{a_n^8}+\frac{700a_{n-1}^3a_{n-2}^4a_{n-9}}{a_n^8}+\frac{700a_{n-1}^3a_{n-3}^4a_{n-5}}{a_n^8}-$$
$$\frac{1120a_{n-1}^5a_{n-3}a_{n-4}^3}{a_n^9}-\frac{1120a_{n-1}^5a_{n-2}^3a_{n-9}}{a_n^9}-\frac{1120a_{n-1}^5a_{n-3}^3a_{n-6}}{a_n^9}-\frac{1120a_{n-1}^3a_{n-2}a_{n-3}^5}{a_n^9}-$$
$$\frac{1120a_{n-1}^3a_{n-2}^5a_{n-7}}{a_n^9}-\frac{1120a_{n-1}a_{n-2}^5a_{n-3}^3}{a_n^9}+\frac{1680a_{n-1}^6a_{n-2}a_{n-4}^3}{a_n^{10}}+\frac{1680a_{n-1}^6a_{n-2}^3a_{n-8}}{a_n^{10}}+$$
$$\frac{1680a_{n-1}^6a_{n-3}^3a_{n-5}}{a_n^{10}}+\frac{1680a_{n-1}^3a_{n-2}^6a_{n-5}}{a_n^{10}}-\frac{2400a_{n-1}^7a_{n-2}^3a_{n-7}}{a_n^{11}}-\frac{2400a_{n-1}^7a_{n-3}^3a_{n-4}}{a_n^{11}}-$$
$$\frac{2400a_{n-1}^3a_{n-2}^7a_{n-3}}{a_n^{11}}+\frac{3300a_{n-1}^8a_{n-2}^3a_{n-6}}{a_n^{12}}-\frac{4400a_{n-1}^9a_{n-2}^3a_{n-5}}{a_n^{13}}-\frac{4400a_{n-1}^9a_{n-2}a_{n-3}^3}{a_n^{13}}+$$
$$\frac{5720a_{n-1}^{10}a_{n-2}^3a_{n-4}}{a_n^{14}}-\frac{7280a_{n-1}^{11}a_{n-2}^3a_{n-3}}{a_n^{15}}-\frac{1400a_{n-1}^4a_{n-2}^4a_{n-8}}{a_n^9}-\frac{1400a_{n-1}^4a_{n-3}^4a_{n-4}}{a_n^9}+$$
$$\frac{2520a_{n-1}^5a_{n-2}^4a_{n-7}}{a_n^{10}}+\frac{2520a_{n-1}^4a_{n-2}^5a_{n-6}}{a_n^{10}}-\frac{4200a_{n-1}^6a_{n-2}a_{n-3}^4}{a_n^{11}}-\frac{4200a_{n-1}^6a_{n-2}^4a_{n-6}}{a_n^{11}}-$$
$$\frac{4200a_{n-1}^4a_{n-2}^6a_{n-4}}{a_n^{11}}+\frac{6600a_{n-1}^7a_{n-2}^4a_{n-5}}{a_n^{12}}-\frac{9900a_{n-1}^8a_{n-2}^4a_{n-4}}{a_n^{13}}+\frac{14300a_{n-1}^9a_{n-2}^4a_{n-3}}{a_n^{14}}-$$
$$\frac{5040a_{n-1}^5a_{n-2}^5a_{n-5}}{a_n^{11}}+\frac{9240a_{n-1}^6a_{n-2}^5a_{n-4}}{a_n^{12}}+\frac{9240a_{n-1}^5a_{n-2}^6a_{n-3}}{a_n^{12}}-\frac{15840a_{n-1}^7a_{n-2}^5a_{n-3}}{a_n^{13}}+$$
$$\frac{300a_{n-1}^2a_{n-2}^2a_{n-7}^2}{a_n^6}+\frac{300a_{n-1}^2a_{n-3}^2a_{n-6}^2}{a_n^6}+\frac{300a_{n-1}^2a_{n-4}^2a_{n-5}^2}{a_n^6}+\frac{300a_{n-2}^2a_{n-3}^2a_{n-5}^2}{a_n^6}-$$
$$\frac{600a_{n-1}^2a_{n-2}^3a_{n-6}^2}{a_n^7}-\frac{600a_{n-1}^2a_{n-3}^2a_{n-4}^3}{a_n^7}+\frac{600a_{n-2}^3a_{n-3}^2a_{n-4}^2}{a_n^7}+\frac{1050a_{n-1}^2a_{n-2}^4a_{n-5}^2}{a_n^8}+$$
$$\frac{1050a_{n-1}^4a_{n-2}^2a_{n-6}^2}{a_n^8}+\frac{1050a_{n-1}^4a_{n-3}^2a_{n-5}^2}{a_n^8}-\frac{1680a_{n-1}^2a_{n-2}^5a_{n-4}^2}{a_n^9}+\frac{2520a_{n-1}^6a_{n-2}^2a_{n-5}^2}{a_n^{10}}+$$
$$\frac{2520a_{n-1}^6a_{n-3}^2a_{n-4}^2}{a_n^{10}}+\frac{2520a_{n-1}^2a_{n-2}^6a_{n-3}^2}{a_n^{10}}+\frac{4950a_{n-1}^8a_{n-2}^2a_{n-4}^2}{a_n^{12}}+\frac{8580a_{n-1}^{10}a_{n-2}^2a_{n-3}^2}{a_n^{14}}+$$
$$\frac{1400a_{n-1}^3a_{n-3}^3a_{n-4}^2}{a_n^8}+\frac{1400a_{n-1}^2a_{n-2}^3a_{n-4}^3}{a_n^8}-\frac{2800a_{n-1}^4a_{n-2}^2a_{n-4}^3}{a_n^9}-\frac{2800a_{n-1}^4a_{n-2}^3a_{n-5}^2}{a_n^9}-$$
$$\frac{2800a_{n-1}^2a_{n-2}^3a_{n-3}^4}{a_n^9}-\frac{8400a_{n-1}^6a_{n-2}^3a_{n-4}^2}{a_n^{11}}+\frac{13200a_{n-1}^7a_{n-2}^2a_{n-3}^3}{a_n^{12}}-$$
$$\frac{19800a_{n-1}^8a_{n-2}^3a_{n-3}^2}{a_n^{13}}+\frac{6300a_{n-1}^4a_{n-2}^4a_{n-4}^2}{a_n^{10}}+\frac{6300a_{n-1}^4a_{n-2}^2a_{n-3}^4}{a_n^{10}}-$$
$$\frac{12600a_{n-1}^4a_{n-2}^5a_{n-3}^2}{a_n^{11}}+\frac{23100a_{n-1}^6a_{n-2}^4a_{n-3}^2}{a_n^{12}}+\frac{8400a_{n-1}^3a_{n-2}^4a_{n-3}^3}{a_n^{10}}-$$
$$\frac{16800a_{n-1}^5a_{n-2}^3a_{n-3}^3}{a_n^{11}}+\frac{120a_{n-1}a_{n-2}a_{n-3}a_{n-14}}{a_n^4}+\frac{120a_{n-1}a_{n-2}a_{n-4}a_{n-13}}{a_n^4}+$$
$$\frac{120a_{n-1}a_{n-2}a_{n-5}a_{n-12}}{a_n^4}+\frac{120a_{n-1}a_{n-2}a_{n-6}a_{n-11}}{a_n^4}+\frac{120a_{n-1}a_{n-2}a_{n-7}a_{n-10}}{a_n^4}+$$
$$\frac{120a_{n-1}a_{n-2}a_{n-8}a_{n-9}}{a_n^4}+\frac{120a_{n-1}a_{n-3}a_{n-4}a_{n-12}}{a_n^4}+\frac{120a_{n-1}a_{n-3}a_{n-5}a_{n-11}}{a_n^4}+$$
$$\frac{120a_{n-1}a_{n-3}a_{n-6}a_{n-10}}{a_n^4}+\frac{120a_{n-1}a_{n-3}a_{n-7}a_{n-9}}{a_n^4}+\frac{120a_{n-1}a_{n-4}a_{n-5}a_{n-10}}{a_n^4}+$$
$$\frac{120a_{n-1}a_{n-4}a_{n-6}a_{n-9}}{a_n^4}+\frac{120a_{n-1}a_{n-4}a_{n-7}a_{n-8}}{a_n^4}+\frac{120a_{n-1}a_{n-5}a_{n-6}a_{n-8}}{a_n^4}+$$
$$\frac{120a_{n-2}a_{n-3}a_{n-4}a_{n-11}}{a_n^4}+\frac{120a_{n-2}a_{n-3}a_{n-5}a_{n-10}}{a_n^4}+\frac{120a_{n-2}a_{n-3}a_{n-6}a_{n-9}}{a_n^4}+$$

$$\frac{120a_{n-2}a_{n-3}a_{n-7}a_{n-8}}{a_n^4}+\frac{120a_{n-2}a_{n-4}a_{n-5}a_{n-9}}{a_n^4}+\frac{120a_{n-2}a_{n-4}a_{n-6}a_{n-8}}{a_n^4}+$$
$$\frac{120a_{n-2}a_{n-5}a_{n-6}a_{n-7}}{a_n^4}+\frac{120a_{n-3}a_{n-4}a_{n-5}a_{n-8}}{a_n^4}+\frac{120a_{n-3}a_{n-4}a_{n-6}a_{n-7}}{a_n^4}-$$
$$\frac{240a_{n-1}^2a_{n-2}a_{n-3}a_{n-13}}{a_n^5}-\frac{240a_{n-1}^2a_{n-2}a_{n-4}a_{n-12}}{a_n^5}-\frac{240a_{n-1}^2a_{n-2}a_{n-5}a_{n-11}}{a_n^5}-$$
$$\frac{240a_{n-1}^2a_{n-2}a_{n-6}a_{n-10}}{a_n^5}-\frac{240a_{n-1}^2a_{n-2}a_{n-7}a_{n-9}}{a_n^5}-\frac{240a_{n-1}^2a_{n-3}a_{n-4}a_{n-11}}{a_n^5}-$$
$$\frac{240a_{n-1}^2a_{n-3}a_{n-5}a_{n-10}}{a_n^5}-\frac{240a_{n-1}^2a_{n-3}a_{n-6}a_{n-9}}{a_n^5}-\frac{240a_{n-1}^2a_{n-3}a_{n-7}a_{n-8}}{a_n^5}-$$
$$\frac{240a_{n-1}^2a_{n-4}a_{n-5}a_{n-9}}{a_n^5}-\frac{240a_{n-1}^2a_{n-4}a_{n-6}a_{n-8}}{a_n^5}-\frac{240a_{n-1}^2a_{n-5}a_{n-6}a_{n-7}}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-2}^2a_{n-3}a_{n-12}}{a_n^5}-\frac{240a_{n-1}a_{n-2}^2a_{n-4}a_{n-11}}{a_n^5}-\frac{240a_{n-1}a_{n-2}^2a_{n-5}a_{n-10}}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-2}^2a_{n-6}a_{n-9}}{a_n^5}-\frac{240a_{n-1}a_{n-2}^2a_{n-7}a_{n-8}}{a_n^5}-\frac{240a_{n-1}a_{n-2}a_{n-3}^2a_{n-11}}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-3}^2a_{n-4}a_{n-9}}{a_n^5}-\frac{240a_{n-1}a_{n-3}^2a_{n-5}a_{n-8}}{a_n^5}-\frac{240a_{n-1}a_{n-3}^2a_{n-6}a_{n-7}}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-2}a_{n-4}^2a_{n-9}}{a_n^5}-\frac{240a_{n-1}a_{n-3}a_{n-4}^2a_{n-8}}{a_n^5}-\frac{240a_{n-1}a_{n-4}^2a_{n-5}a_{n-6}}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-2}a_{n-5}^2a_{n-7}}{a_n^5}-\frac{240a_{n-1}a_{n-3}a_{n-5}^2a_{n-6}}{a_n^5}-\frac{240a_{n-1}a_{n-2}a_{n-5}a_{n-6}^2}{a_n^5}-$$
$$\frac{240a_{n-1}a_{n-3}a_{n-4}a_{n-6}^2}{a_n^5}-\frac{240a_{n-1}a_{n-2}a_{n-3}a_{n-7}^2}{a_n^5}-\frac{240a_{n-2}^2a_{n-3}a_{n-4}a_{n-9}}{a_n^5}-$$
$$\frac{240a_{n-2}^2a_{n-3}a_{n-5}a_{n-8}}{a_n^5}-\frac{240a_{n-2}^2a_{n-3}a_{n-6}a_{n-7}}{a_n^5}-\frac{240a_{n-2}^2a_{n-4}a_{n-5}a_{n-7}}{a_n^5}-$$
$$\frac{240a_{n-2}a_{n-3}^2a_{n-4}a_{n-8}}{a_n^5}-\frac{240a_{n-2}a_{n-3}^2a_{n-5}a_{n-7}}{a_n^5}-\frac{240a_{n-2}a_{n-3}a_{n-4}^2a_{n-7}}{a_n^5}+$$
$$\frac{400a_{n-1}^3a_{n-2}a_{n-3}a_{n-12}}{a_n^6}+\frac{400a_{n-1}^3a_{n-2}a_{n-4}a_{n-11}}{a_n^6}+\frac{400a_{n-1}^3a_{n-2}a_{n-5}a_{n-10}}{a_n^6}+$$
$$\frac{400a_{n-1}^3a_{n-2}a_{n-6}a_{n-9}}{a_n^6}+\frac{400a_{n-1}^3a_{n-2}a_{n-7}a_{n-8}}{a_n^6}+\frac{400a_{n-1}^3a_{n-3}a_{n-4}a_{n-10}}{a_n^6}+$$
$$\frac{400a_{n-1}^3a_{n-3}a_{n-5}a_{n-9}}{a_n^6}+\frac{400a_{n-1}^3a_{n-3}a_{n-6}a_{n-8}}{a_n^6}+\frac{400a_{n-1}^3a_{n-4}a_{n-5}a_{n-8}}{a_n^6}+$$
$$\frac{400a_{n-1}^3a_{n-4}a_{n-6}a_{n-7}}{a_n^6}+\frac{400a_{n-1}a_{n-2}^3a_{n-3}a_{n-10}}{a_n^6}+\frac{400a_{n-1}a_{n-2}^3a_{n-4}a_{n-9}}{a_n^6}+$$
$$\frac{400a_{n-1}a_{n-2}^3a_{n-5}a_{n-8}}{a_n^6}+\frac{400a_{n-1}a_{n-2}^3a_{n-6}a_{n-7}}{a_n^6}+\frac{400a_{n-1}a_{n-2}a_{n-3}^3a_{n-8}}{a_n^6}+$$
$$\frac{400a_{n-1}a_{n-3}^3a_{n-4}a_{n-6}}{a_n^6}+\frac{400a_{n-1}a_{n-2}a_{n-4}^3a_{n-5}}{a_n^6}+\frac{400a_{n-2}^3a_{n-3}a_{n-4}a_{n-7}}{a_n^6}+$$
$$\frac{400a_{n-2}^3a_{n-3}a_{n-5}a_{n-6}}{a_n^6}+\frac{400a_{n-2}a_{n-3}^3a_{n-4}a_{n-5}}{a_n^6}-\frac{600a_{n-1}^4a_{n-2}a_{n-3}a_{n-11}}{a_n^7}-$$
$$\frac{600a_{n-1}^4a_{n-2}a_{n-4}a_{n-10}}{a_n^7}-\frac{600a_{n-1}^4a_{n-2}a_{n-5}a_{n-9}}{a_n^7}-\frac{600a_{n-1}^4a_{n-2}a_{n-6}a_{n-8}}{a_n^7}-$$
$$\frac{600a_{n-1}^4a_{n-3}a_{n-4}a_{n-9}}{a_n^7}-\frac{600a_{n-1}^4a_{n-3}a_{n-5}a_{n-8}}{a_n^7}-\frac{600a_{n-1}^4a_{n-3}a_{n-6}a_{n-7}}{a_n^7}-$$
$$\frac{600a_{n-1}^4a_{n-4}a_{n-5}a_{n-7}}{a_n^7}-\frac{600a_{n-1}a_{n-2}^4a_{n-3}a_{n-8}}{a_n^7}-\frac{600a_{n-1}a_{n-2}^4a_{n-4}a_{n-7}}{a_n^7}-$$

$$\frac{600a_{n-1}a_{n-2}^4a_{n-5}a_{n-6}}{a_n^7} - \frac{600a_{n-1}a_{n-2}a_{n-3}^4a_{n-5}}{a_n^7} - \frac{600a_{n-2}^4a_{n-3}a_{n-4}a_{n-5}}{a_n^7} +$$
$$\frac{840a_{n-1}^5a_{n-2}a_{n-3}a_{n-10}}{a_n^8} + \frac{840a_{n-1}^5a_{n-2}a_{n-4}a_{n-9}}{a_n^8} + \frac{840a_{n-1}^5a_{n-2}a_{n-5}a_{n-8}}{a_n^8} +$$
$$\frac{840a_{n-1}^5a_{n-2}a_{n-6}a_{n-7}}{a_n^8} + \frac{840a_{n-1}^5a_{n-3}a_{n-4}a_{n-8}}{a_n^8} + \frac{840a_{n-1}^5a_{n-3}a_{n-5}a_{n-7}}{a_n^8} +$$
$$\frac{840a_{n-1}^5a_{n-4}a_{n-5}a_{n-6}}{a_n^8} + \frac{840a_{n-1}a_{n-2}^5a_{n-3}a_{n-6}}{a_n^8} + \frac{840a_{n-1}a_{n-2}^5a_{n-4}a_{n-5}}{a_n^8} -$$
$$\frac{1120a_{n-1}^6a_{n-2}a_{n-3}a_{n-9}}{a_n^9} - \frac{1120a_{n-1}^6a_{n-2}a_{n-4}a_{n-8}}{a_n^9} - \frac{1120a_{n-1}^6a_{n-2}a_{n-5}a_{n-7}}{a_n^9} -$$
$$\frac{1120a_{n-1}^6a_{n-3}a_{n-4}a_{n-7}}{a_n^9} - \frac{1120a_{n-1}^6a_{n-3}a_{n-5}a_{n-6}}{a_n^9} - \frac{1120a_{n-1}a_{n-2}^6a_{n-3}a_{n-4}}{a_n^9} +$$
$$\frac{1440a_{n-1}^7a_{n-2}a_{n-3}a_{n-8}}{a_n^{10}} + \frac{1440a_{n-1}^7a_{n-2}a_{n-4}a_{n-7}}{a_n^{10}} + \frac{1440a_{n-1}^7a_{n-2}a_{n-5}a_{n-6}}{a_n^{10}} +$$
$$\frac{1440a_{n-1}^7a_{n-3}a_{n-4}a_{n-6}}{a_n^{10}} - \frac{1800a_{n-1}^8a_{n-2}a_{n-3}a_{n-7}}{a_n^{11}} - \frac{1800a_{n-1}^8a_{n-2}a_{n-4}a_{n-6}}{a_n^{11}} -$$
$$\frac{1800a_{n-1}^8a_{n-3}a_{n-4}a_{n-5}}{a_n^{11}} + \frac{2200a_{n-1}^9a_{n-2}a_{n-3}a_{n-6}}{a_n^{12}} + \frac{2200a_{n-1}^9a_{n-2}a_{n-4}a_{n-5}}{a_n^{12}} -$$
$$\frac{2640a_{n-1}^{10}a_{n-2}a_{n-3}a_{n-5}}{a_n^{13}} + \frac{3120a_{n-1}^{11}a_{n-2}a_{n-3}a_{n-4}}{a_n^{14}} + \frac{600a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-11}}{a_n^6} +$$
$$\frac{600a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-10}}{a_n^6} + \frac{600a_{n-1}^2a_{n-2}^2a_{n-5}a_{n-9}}{a_n^6} + \frac{600a_{n-1}^2a_{n-2}^2a_{n-6}a_{n-8}}{a_n^6} +$$
$$\frac{600a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-10}}{a_n^6} + \frac{600a_{n-1}^2a_{n-3}^2a_{n-4}a_{n-8}}{a_n^6} + \frac{600a_{n-1}^2a_{n-3}^2a_{n-5}a_{n-7}}{a_n^6} +$$
$$\frac{600a_{n-1}^2a_{n-2}a_{n-4}^2a_{n-8}}{a_n^6} + \frac{600a_{n-1}^2a_{n-3}a_{n-4}^2a_{n-7}}{a_n^6} + \frac{600a_{n-1}^2a_{n-2}a_{n-5}^2a_{n-6}}{a_n^6} +$$
$$\frac{600a_{n-1}^2a_{n-2}a_{n-4}a_{n-6}^2}{a_n^6} + \frac{600a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-9}}{a_n^6} + \frac{600a_{n-1}a_{n-2}^2a_{n-4}^2a_{n-7}}{a_n^6} +$$
$$\frac{600a_{n-1}a_{n-2}^2a_{n-3}a_{n-6}^2}{a_n^6} + \frac{600a_{n-1}a_{n-3}^2a_{n-4}^2a_{n-5}}{a_n^6} + \frac{600a_{n-2}^2a_{n-3}^2a_{n-4}a_{n-6}}{a_n^6} +$$
$$\frac{600a_{n-2}^2a_{n-3}a_{n-4}^2a_{n-5}}{a_n^6} - \frac{1200a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-10}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-2}^2a_{n-4}a_{n-9}}{a_n^7} -$$
$$\frac{1200a_{n-1}^3a_{n-2}^2a_{n-5}a_{n-8}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-2}^2a_{n-6}a_{n-7}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-9}}{a_n^7} -$$
$$\frac{1200a_{n-1}^3a_{n-3}^2a_{n-4}a_{n-7}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-3}^2a_{n-5}a_{n-6}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-2}a_{n-4}^2a_{n-7}}{a_n^7} -$$
$$\frac{1200a_{n-1}^3a_{n-3}a_{n-4}^2a_{n-6}}{a_n^7} - \frac{1200a_{n-1}^3a_{n-3}a_{n-4}a_{n-5}^2}{a_n^7} - \frac{1200a_{n-1}^3a_{n-2}a_{n-3}a_{n-6}^2}{a_n^7} -$$
$$\frac{1200a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-9}}{a_n^7} - \frac{1200a_{n-1}^2a_{n-2}^3a_{n-4}a_{n-8}}{a_n^7} - \frac{1200a_{n-1}^2a_{n-2}^3a_{n-5}a_{n-7}}{a_n^7} -$$
$$\frac{1200a_{n-1}^2a_{n-2}a_{n-3}^3a_{n-7}}{a_n^7} - \frac{1200a_{n-1}^2a_{n-3}^3a_{n-4}a_{n-5}}{a_n^7} - \frac{1200a_{n-1}a_{n-2}^3a_{n-3}^2a_{n-7}}{a_n^7} -$$
$$\frac{1200a_{n-1}a_{n-2}^3a_{n-3}^2a_{n-4}^2a_{n-5}}{a_n^7} - \frac{1200a_{n-1}a_{n-2}^2a_{n-3}^3a_{n-6}}{a_n^7} - \frac{1200a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}^3}{a_n^7} -$$
$$\frac{12000a_{n-1}a_{n-2}^3a_{n-3}a_{n-5}^2}{a_n^7} - \frac{12000a_{n-1}a_{n-2}a_{n-3}^3a_{n-4}^2}{a_n^7} + \frac{2100a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-9}}{a_n^8} +$$
$$\frac{2100a_{n-1}^4a_{n-2}^2a_{n-4}a_{n-8}}{a_n^8} + \frac{2100a_{n-1}^4a_{n-2}^2a_{n-5}a_{n-7}}{a_n^8} + \frac{2100a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-8}}{a_n^8} +$$

$$\frac{2100a_{n-1}^4a_{n-3}^2a_{n-4}a_{n-6}}{a_n^8}+\frac{2100a_{n-1}^4a_{n-2}a_{n-4}^2a_{n-6}}{a_n^8}+\frac{2100a_{n-1}^4a_{n-3}a_{n-4}^2a_{n-5}}{a_n^8}+$$
$$\frac{2100a_{n-1}^4a_{n-2}a_{n-4}a_{n-5}^2}{a_n^8}+\frac{2100a_{n-1}^2a_{n-2}^4a_{n-3}a_{n-7}}{a_n^8}+\frac{2100a_{n-1}^2a_{n-2}^4a_{n-4}a_{n-6}}{a_n^8}+$$
$$\frac{2100a_{n-1}^2a_{n-2}a_{n-3}^4a_{n-4}}{a_n^8}+\frac{2100a_{n-1}a_{n-2}^4a_{n-3}^2a_{n-5}}{a_n^8}+\frac{2100a_{n-1}a_{n-2}^4a_{n-3}a_{n-4}^2}{a_n^8}-$$
$$\frac{3360a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-8}}{a_n^9}-\frac{3360a_{n-1}^5a_{n-2}^2a_{n-4}a_{n-7}}{a_n^9}-\frac{3360a_{n-1}^5a_{n-2}^2a_{n-5}a_{n-6}}{a_n^9}-$$
$$\frac{3360a_{n-1}^5a_{n-2}a_{n-3}^2a_{n-7}}{a_n^9}-\frac{3360a_{n-1}^5a_{n-3}^2a_{n-4}a_{n-5}}{a_n^9}-\frac{3360a_{n-1}^5a_{n-2}a_{n-4}^2a_{n-5}}{a_n^9}-$$
$$\frac{3360a_{n-1}^5a_{n-2}a_{n-3}a_{n-5}^2}{a_n^9}-\frac{3360a_{n-1}^2a_{n-2}^5a_{n-3}a_{n-5}}{a_n^9}+\frac{5040a_{n-1}^6a_{n-2}^2a_{n-3}a_{n-7}}{a_n^{10}}+$$
$$\frac{5040a_{n-1}^6a_{n-2}^2a_{n-4}a_{n-6}}{a_n^{10}}+\frac{5040a_{n-1}^6a_{n-2}a_{n-3}^2a_{n-6}}{a_n^{10}}-\frac{7200a_{n-1}^7a_{n-2}^2a_{n-3}a_{n-6}}{a_n^{11}}-$$
$$\frac{7200a_{n-1}^7a_{n-2}^2a_{n-4}a_{n-5}}{a_n^{11}}-\frac{7200a_{n-1}^7a_{n-2}a_{n-3}^2a_{n-5}}{a_n^{11}}-\frac{7200a_{n-1}^7a_{n-2}a_{n-3}a_{n-4}^2}{a_n^{11}}+$$
$$\frac{9900a_{n-1}^8a_{n-2}^2a_{n-3}a_{n-5}}{a_n^{12}}+\frac{9900a_{n-1}^8a_{n-2}a_{n-3}^2a_{n-4}}{a_n^{12}}-\frac{13200a_{n-1}^9a_{n-2}^2a_{n-3}a_{n-4}}{a_n^{13}}+$$
$$\frac{2800a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-8}}{a_n^8}+\frac{2800a_{n-1}^3a_{n-2}^3a_{n-4}a_{n-7}}{a_n^8}+\frac{2800a_{n-1}^3a_{n-2}^3a_{n-5}a_{n-6}}{a_n^8}+$$
$$\frac{2800a_{n-1}^3a_{n-2}a_{n-3}^3a_{n-6}}{a_n^8}+\frac{2800a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}^3}{a_n^8}+\frac{2800a_{n-1}a_{n-2}^3a_{n-3}^3a_{n-4}}{a_n^8}-$$
$$\frac{5600a_{n-1}^4a_{n-2}^3a_{n-3}a_{n-7}}{a_n^9}-\frac{5600a_{n-1}^4a_{n-2}^3a_{n-4}a_{n-6}}{a_n^9}-\frac{5600a_{n-1}^4a_{n-2}a_{n-3}^3a_{n-5}}{a_n^9}-$$
$$\frac{5600a_{n-1}^3a_{n-2}^4a_{n-3}a_{n-6}}{a_n^9}-\frac{5600a_{n-1}^3a_{n-2}^4a_{n-4}a_{n-5}}{a_n^9}+\frac{10080a_{n-1}^5a_{n-2}^3a_{n-3}a_{n-6}}{a_n^{10}}+$$
$$\frac{10080a_{n-1}^5a_{n-2}^3a_{n-4}a_{n-5}}{a_n^{10}}+\frac{10080a_{n-1}^5a_{n-2}a_{n-3}^3a_{n-4}}{a_n^{10}}+\frac{10080a_{n-1}^3a_{n-2}^5a_{n-3}a_{n-4}}{a_n^{10}}-$$
$$\frac{16800a_{n-1}^6a_{n-2}^3a_{n-3}a_{n-5}}{a_n^{11}}+\frac{26400a_{n-1}^7a_{n-2}^3a_{n-3}a_{n-4}}{a_n^{12}}+\frac{12600a_{n-1}^4a_{n-2}^4a_{n-3}a_{n-5}}{a_n^{10}}-$$
$$\frac{25200a_{n-1}^5a_{n-2}^4a_{n-3}a_{n-4}}{a_n^{11}}-\frac{1800a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-8}}{a_n^7}-\frac{1800a_{n-1}^2a_{n-2}^2a_{n-4}^2a_{n-6}}{a_n^7}-$$
$$\frac{1800a_{n-1}^2a_{n-2}^2a_{n-4}a_{n-5}^2}{a_n^7}-\frac{1800a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-5}^2}{a_n^7}+\frac{4200a_{n-1}^3a_{n-2}^2a_{n-3}^2a_{n-7}}{a_n^8}+$$
$$\frac{4200a_{n-1}^3a_{n-2}^2a_{n-4}^2a_{n-5}}{a_n^8}+\frac{4200a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-5}^2}{a_n^8}+\frac{4200a_{n-1}^2a_{n-2}^3a_{n-3}^2a_{n-6}}{a_n^8}+$$
$$\frac{4200a_{n-1}^2a_{n-2}^2a_{n-3}^3a_{n-5}}{a_n^8}-\frac{8400a_{n-1}^4a_{n-2}^2a_{n-3}^2a_{n-6}}{a_n^9}-\frac{8400a_{n-1}^4a_{n-2}a_{n-3}^2a_{n-4}^2}{a_n^9}-$$
$$\frac{8400a_{n-1}^2a_{n-2}^4a_{n-3}^2a_{n-4}}{a_n^9}+\frac{15120a_{n-1}^5a_{n-2}^2a_{n-3}^2a_{n-5}}{a_n^{10}}+\frac{15120a_{n-1}^5a_{n-2}^2a_{n-3}a_{n-4}^2}{a_n^{10}}-$$
$$\frac{25200a_{n-1}^6a_{n-2}^2a_{n-3}^2a_{n-4}}{a_n^{11}}-\frac{11200a_{n-1}^3a_{n-2}^3a_{n-3}^2a_{n-5}}{a_n^9}-\frac{11200a_{n-1}^3a_{n-2}^3a_{n-3}a_{n-4}^2}{a_n^9}-$$
$$\frac{11200a_{n-1}^3a_{n-2}^2a_{n-3}^3a_{n-4}}{a_n^9}+\frac{25200a_{n-1}^4a_{n-2}^3a_{n-3}^2a_{n-4}}{a_n^{10}}+\frac{6300a_{n-1}^2a_{n-2}^2a_{n-3}^2a_{n-4}^2}{a_n^8}-$$
$$\frac{480a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-10}}{a_n^5}-\frac{480a_{n-1}a_{n-2}a_{n-3}a_{n-5}a_{n-9}}{a_n^5}-$$
$$\frac{480a_{n-1}a_{n-2}a_{n-3}a_{n-6}a_{n-8}}{a_n^5}-\frac{480a_{n-1}a_{n-2}a_{n-4}a_{n-5}a_{n-8}}{a_n^5}-$$

$$\frac{480a_{n-1}a_{n-2}a_{n-4}a_{n-6}a_{n-7}}{a_n^5} - \frac{480a_{n-1}a_{n-3}a_{n-4}a_{n-5}a_{n-7}}{a_n^5} -$$
$$\frac{480a_{n-2}a_{n-3}a_{n-4}a_{n-5}a_{n-6}}{a_n^5} + \frac{1200a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}a_{n-9}}{a_n^6} +$$
$$\frac{1200a_{n-1}^2a_{n-2}a_{n-3}a_{n-5}a_{n-8}}{a_n^6} + \frac{1200a_{n-1}^2a_{n-2}a_{n-3}a_{n-6}a_{n-7}}{a_n^6} +$$
$$\frac{1200a_{n-1}^2a_{n-2}a_{n-4}a_{n-5}a_{n-7}}{a_n^6} + \frac{1200a_{n-1}^2a_{n-3}a_{n-4}a_{n-5}a_{n-6}}{a_n^6} +$$
$$\frac{1200a_{n-1}a_{n-2}^2a_{n-3}a_{n-4}a_{n-8}}{a_n^6} + \frac{1200a_{n-1}a_{n-2}^2a_{n-3}a_{n-5}a_{n-7}}{a_n^6} +$$
$$\frac{1200a_{n-1}a_{n-2}^2a_{n-4}a_{n-5}a_{n-6}}{a_n^6} + \frac{1200a_{n-1}a_{n-2}a_{n-3}^2a_{n-4}a_{n-7}}{a_n^6} +$$
$$\frac{1200a_{n-1}a_{n-2}a_{n-3}^2a_{n-5}a_{n-6}}{a_n^6} + \frac{1200a_{n-1}a_{n-2}a_{n-3}a_{n-4}^2a_{n-6}}{a_n^6} +$$
$$\frac{1200a_{n-1}a_{n-2}a_{n-3}a_{n-4}a_{n-5}^2}{a_n^6} - \frac{2400a_{n-1}^3a_{n-2}a_{n-3}a_{n-4}a_{n-8}}{a_n^7} -$$
$$\frac{2400a_{n-1}^3a_{n-2}a_{n-3}a_{n-5}a_{n-7}}{a_n^7} - \frac{2400a_{n-1}^3a_{n-2}a_{n-4}a_{n-5}a_{n-6}}{a_n^7} -$$
$$\frac{2400a_{n-1}a_{n-2}^3a_{n-3}a_{n-4}a_{n-6}}{a_n^7} + \frac{4200a_{n-1}^4a_{n-2}a_{n-3}a_{n-4}a_{n-7}}{a_n^8} +$$
$$\frac{4200a_{n-1}^4a_{n-2}a_{n-3}a_{n-5}a_{n-6}}{a_n^8} - \frac{6720a_{n-1}^5a_{n-2}a_{n-3}a_{n-4}a_{n-6}}{a_n^9} +$$
$$\frac{10080a_{n-1}^6a_{n-2}a_{n-3}a_{n-4}a_{n-5}}{a_n^{10}} - \frac{3600a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-4}a_{n-7}}{a_n^7} -$$
$$\frac{3600a_{n-1}^2a_{n-2}^2a_{n-3}a_{n-5}a_{n-6}}{a_n^7} - \frac{3600a_{n-1}^2a_{n-2}a_{n-3}^2a_{n-4}a_{n-6}}{a_n^7} -$$
$$\frac{3600a_{n-1}^2a_{n-2}a_{n-3}a_{n-4}^2a_{n-5}}{a_n^7} - \frac{3600a_{n-1}a_{n-2}^2a_{n-3}^2a_{n-4}a_{n-5}}{a_n^7} +$$
$$\frac{8400a_{n-1}^3a_{n-2}^2a_{n-3}a_{n-4}a_{n-6}}{a_n^8} + \frac{8400a_{n-1}^3a_{n-2}a_{n-3}^2a_{n-4}a_{n-5}}{a_n^8} +$$
$$\frac{8400a_{n-1}^2a_{n-2}^3a_{n-3}a_{n-4}a_{n-5}}{a_n^8} - \frac{16800a_{n-1}^4a_{n-2}^2a_{n-3}a_{n-4}a_{n-5}}{a_n^9}$$

Tableau 1::Tabulaire direct

$\sum_{k=1}^{n}\frac{1}{z_k}=-\frac{a_1}{a_0}$
$\sum_{k=1}^{n}\frac{1}{z_k^2}=-\frac{2a_2}{a_0}+\frac{a_1^2}{a_0^2}$
$\sum_{k=1}^{n}\frac{1}{z_k^3}=-\frac{3a_3}{a_0}-\frac{a_1^3}{a_0^3}+\frac{3a_1a_2}{a_0^2}$
$\sum_{k=1}^{n}\frac{1}{z_k^4}=-\frac{4a_4}{a_0}+\frac{2a_2^2}{a_0^2}+\frac{a_1^4}{a_0^4}+\frac{4a_1a_3}{a_0^2}-\frac{4a_1^2a_2}{a_0^3}$
$\sum_{k=1}^{n}\frac{1}{z_k^5}=-\frac{5a_5}{a_0}-\frac{a_1^5}{a_0^5}+\frac{5a_1a_4}{a_0^2}+\frac{5a_2a_3}{a_0^2}-\frac{5a_1^2a_3}{a_0^3}-\frac{5a_1a_2^2}{a_0^3}+\frac{5a_1^3a_2}{a_0^4}$
$\sum_{k=1}^{n}\frac{1}{z_k^6}=-\frac{6a_6}{a_0}+\frac{3a_3^2}{a_0^2}-\frac{2a_2^3}{a_0^3}+\frac{a_1^6}{a_0^6}+\frac{6a_1a_5}{a_0^2}+\frac{6a_2a_4}{a_0^2}-\frac{6a_1^2a_4}{a_0^3}+\frac{6a_1^3a_3}{a_0^4}-\frac{6a_1^4a_2}{a_0^5}+\frac{9a_1^2a_2^2}{a_0^4}-\frac{12a_1a_2a_3}{a_0^3}$
$\sum_{k=1}^{n}\frac{1}{z_k^7}=-\frac{7a_7}{a_0}-\frac{a_1^7}{a_0^7}+\frac{7a_1a_6}{a_0^2}+\frac{7a_2a_5}{a_0^2}+\frac{7a_3a_4}{a_0^2}-\frac{7a_1^2a_5}{a_0^3}-\frac{7a_1a_3^2}{a_0^3}-\frac{7a_2^2a_3}{a_0^3}+\frac{7a_1^3a_4}{a_0^4}+\frac{7a_1a_2^3}{a_0^4}-\frac{7a_1^4a_3}{a_0^5}+\frac{7a_1^5a_2}{a_0^6}-\frac{14a_1^3a_2^2}{a_0^5}-\frac{14a_1a_2a_4}{a_0^3}+\frac{21a_1^2a_2a_3}{a_0^4}$
$\sum_{k=1}^{n}\frac{1}{z_k^8}=-\frac{8a_8}{a_n}+\frac{4a_4^2}{a_0^2}+\frac{2a_2^4}{a_0^4}+\frac{a_1^8}{a_n^8}+\frac{8a_1a_7}{a_n^2}+\frac{8a_2a_6}{a_n^2}+\frac{8a_3a_5}{a_0^2}-\frac{8a_1^2a_6}{a_n^3}-\frac{8a_2a_3^2}{a_0^3}-\frac{8a_2^2a_4}{a_0^3}+\frac{8a_1^3a_5}{a_n^4}-\frac{8a_1^4a_4}{a_n^5}+\frac{8a_1^5a_3}{a_n^6}-\frac{8a_1^6a_2}{a_n^7}+\frac{12a_1^2a_3^2}{a_0^4}-\frac{16a_1^2a_2^3}{a_0^5}+\frac{20a_1^4a_2^2}{a_0^6}-\frac{16a_1a_3a_4}{a_0^3}-\frac{16a_1a_2a_5}{a_0^3}+\frac{24a_1^2a_2a_4}{a_0^4}+\frac{24a_1a_2^2a_3}{a_0^4}-\frac{32a_1^3a_2a_3}{a_0^5}$
$\sum_{k=1}^{n}\frac{1}{z_k^9}=-\frac{9a_9}{a_0}-\frac{3a_3^3}{a_0^3}-\frac{a_1^9}{a_0^9}+\frac{9a_1a_8}{a_0^2}+\frac{9a_2a_7}{a_0^2}+\frac{9a_3a_6}{a_0^2}+\frac{9a_4a_5}{a_0^2}-\frac{9a_1^2a_7}{a_0^3}-\frac{9a_1a_4^2}{a_0^3}-\frac{9a_2^2a_5}{a_0^3}+\frac{9a_1^3a_6}{a_0^4}+\frac{9a_2^3a_3}{a_0^4}-\frac{9a_1^4a_5}{a_0^5}-\frac{9a_1a_2^4}{a_0^5}+\frac{9a_1^5a_4}{a_0^6}-\frac{9a_1^6a_3}{a_0^7}+\frac{9a_1^7a_2}{a_0^8}-\frac{18a_1^3a_2^2}{a_0^5}-\frac{27a_1^5a_2^2}{a_0^7}+\frac{30a_1^3a_2^3}{a_0^6}-\frac{18a_1a_2a_6}{a_0^3}-\frac{18a_1a_3a_5}{a_0^3}-\frac{18a_2a_3a_4}{a_0^3}+\frac{27a_1^2a_3a_4}{a_0^4}+\frac{27a_1^2a_2a_5}{a_0^4}+\frac{27a_1a_2^2a_4}{a_0^4}+\frac{27a_1a_2a_3^2}{a_0^4}-\frac{36a_1^3a_2a_4}{a_0^5}+\frac{45a_1^4a_2a_3}{a_0^6}-\frac{54a_1^2a_2^2a_3}{a_0^5}$
$\sum_{k=1}^{n}\frac{1}{z_k^{10}}=-\frac{10a_{10}}{a_0}+\frac{5a_5^2}{a_0^2}-\frac{2a_2^5}{a_0^5}+\frac{a_1^{10}}{a_0^{10}}+\frac{10a_1a_9}{a_0^2}+\frac{10a_2a_8}{a_0^2}+\frac{10a_3a_7}{a_0^2}+\frac{10a_4a_6}{a_0^2}-\frac{10a_1^2a_8}{a_0^3}-\frac{10a_2a_4^2}{a_0^3}-\frac{10a_2^2a_6}{a_0^3}-\frac{10a_3^2a_4}{a_0^3}+\frac{10a_1^3a_7}{a_0^4}+\frac{10a_1a_3^3}{a_0^4}+\frac{10a_2^3a_6}{a_0^4}-\frac{10a_1^4a_6}{a_0^5}+\frac{10a_1^5a_5}{a_0^6}-\frac{10a_1^6a_4}{a_0^7}+\frac{10a_1^7a_3}{a_0^8}-\frac{10a_1^8a_2}{a_0^9}+\frac{15a_1^2a_4^2}{a_0^4}+\frac{15a_2^2a_3^2}{a_0^4}+\frac{25a_1^2a_2^4}{a_0^6}+\frac{25a_1^4a_3^2}{a_0^6}+\frac{35a_1^6a_2^2}{a_0^8}-\frac{50a_1^4a_2^3}{a_0^7}-\frac{20a_1a_2a_7}{a_0^3}-\frac{20a_1a_3a_6}{a_0^3}-\frac{20a_1a_4a_5}{a_0^3}-\frac{20a_2a_3a_5}{a_0^3}+\frac{30a_1^2a_3a_5}{a_0^4}+\frac{30a_1^2a_2a_6}{a_0^4}+\frac{30a_1a_2^2a_5}{a_0^4}-\frac{40a_1^3a_2a_5}{a_0^5}-\frac{40a_1^3a_3a_4}{a_0^5}-\frac{40a_1a_2^3a_3}{a_0^5}+\frac{50a_1^4a_2a_4}{a_0^6}-\frac{60a_1^5a_2a_3}{a_0^7}-\frac{60a_1^2a_2^2a_4}{a_0^5}-\frac{60a_1^2a_2a_3^2}{a_0^5}+\frac{100a_1^3a_2^2a_3}{a_0^6}+\frac{60a_1a_2a_3a_4}{a_0^4}$

$$\sum_{k=1}^{n}\frac{1}{z_k^{11}}=-\frac{11a_{11}}{a_0}-\frac{a_1^{11}}{a_0^{11}}+\frac{11a_1a_{10}}{a_0^2}+\frac{11a_2a_9}{a_0^2}+\frac{11a_3a_8}{a_0^2}+\frac{11a_4a_7}{a_0^2}+\frac{11a_5a_6}{a_0^2}-\frac{11a_1^2a_9}{a_0^3}-\frac{11a_1a_5^2}{a_0^3}-\frac{11a_3a_4^2}{a_0^3}-\frac{11a_2^2a_7}{a_0^3}-\frac{11a_3^2a_5}{a_0^3}+\frac{11a_1^3a_8}{a_0^4}+\frac{11a_2a_3^3}{a_0^4}+\frac{11a_2^3a_5}{a_0^4}-\frac{11a_1^4a_7}{a_0^5}-\frac{11a_2^4a_3}{a_0^5}+\frac{11a_1^5a_6}{a_0^6}+\frac{11a_1a_2^5}{a_0^6}-\frac{11a_1^6a_5}{a_0^7}+\frac{11a_1^7a_4}{a_0^8}-\frac{11a_1^8a_3}{a_0^9}+\frac{11a_1^9a_2}{a_0^{10}}-\frac{22a_1^2a_3^3}{a_0^5}-\frac{22a_1^3a_4^2}{a_0^5}-\frac{33a_1^5a_3^2}{a_0^7}-\frac{44a_1^7a_2^2}{a_0^9}-\frac{55a_1^3a_2^4}{a_0^7}+\frac{77a_1^5a_2^3}{a_0^8}-\frac{22a_1a_2a_8}{a_0^3}-\frac{22a_1a_3a_7}{a_0^3}-\frac{22a_1a_4a_6}{a_0^3}-\frac{22a_2a_3a_6}{a_0^3}-\frac{22a_2a_4a_5}{0}+\frac{33a_1^2a_2a_7}{a_0^4}+\frac{33a_1^2a_3a_6}{a_0^4}+\frac{33a_1^2a_4a_5}{a_0^4}+\frac{33a_2^2a_3a_4}{a_0^4}+\frac{33a_1a_2^2a_6}{a_0^4}+\frac{33a_1a_3^2a_4}{a_0^4}+\frac{33a_1a_2a_4^2}{a_0^4}-\frac{44a_1^3a_2a_6}{a_0^5}-\frac{44a_1^3a_3a_5}{a_0^5}-\frac{44a_1a_2^3a_4}{a_0^5}+\frac{55a_1^4a_2a_5}{a_0^6}+\frac{55a_1^4a_3a_4}{a_0^6}-\frac{66a_1^5a_2a_4}{a_0^7}+\frac{77a_1^6a_2a_3}{a_0^8}-\frac{66a_1^2a_2^2a_5}{a_0^5}-\frac{66a_1a_2^2a_3^2}{a_0^5}+\frac{110a_1^3a_2^2a_4}{a_0^6}+\frac{110a_1^3a_2a_3^2}{a_0^6}+\frac{110a_1^2a_2^3a_3}{a_0^6}-\frac{165a_1^4a_2^2a_3}{a_0^7}+\frac{66a_1a_2a_3a_5}{a_0^4}-\frac{132a_1^2a_2a_3a_4}{a_0^5}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{12}}=-\frac{12a_{12}}{a_0}+\frac{6a_6^2}{a_0^2}-\frac{4a_4^3}{a_0^3}+\frac{3a_3^4}{a_0^4}+\frac{2a_2^6}{a_0^6}+\frac{a_1^{12}}{a_0^{12}}+\frac{12a_1a_{11}}{a_0^2}+\frac{12a_2a_{10}}{a_0^2}+\frac{12a_3a_9}{a_0^2}+\frac{12a_4a_8}{a_0^2}+\frac{12a_5a_7}{a_0^2}-\frac{12a_1^2a_{10}}{a_0^3}-\frac{12a_2a_5^2}{a_0^3}-\frac{12a_2^2a_8}{a_0^3}-\frac{12a_3^2a_6}{a_0^3}+\frac{12a_1^3a_9}{a_0^4}+\frac{12a_2^3a_6}{a_0^4}-\frac{12a_1^4a_8}{a_0^5}-\frac{12a_2^4a_4}{a_0^5}+\frac{12a_1^5a_7}{a_0^6}-\frac{12a_1^6a_6}{a_0^7}+\frac{12a_1^7a_5}{a_0^8}-\frac{12a_1^8a_4}{a_0^9}+\frac{12a_1^9a_3}{a_0^{10}}-\frac{12a_1^{10}a_2}{a_0^{11}}+\frac{18a_1^2a_5^2}{a_0^4}+\frac{18a_2^2a_4^2}{a_0^4}-\frac{24a_2^3a_3^2}{a_0^6}+\frac{30a_1^4a_4^2}{a_0^6}-\frac{36a_1^2a_2^5}{a_0^7}+\frac{42a_1^6a_3^2}{a_0^8}+\frac{54a_1^8a_2^2}{a_0^{10}}+\frac{40a_1^3a_3^3}{a_0^6}-\frac{112a_1^6a_2^3}{a_0^9}+\frac{105a_1^4a_2^4}{a_0^8}-\frac{24a_1a_2a_9}{a_0^3}-\frac{24a_1a_3a_8}{a_0^3}-\frac{24a_1a_4a_7}{a_0^3}-\frac{24a_1a_5a_6}{a_0^3}-\frac{24a_2a_3a_7}{a_0^3}-\frac{24a_2a_4a_6}{a_0^3}-\frac{24a_3a_4a_5}{a_0^3}+\frac{36a_1^2a_2a_8}{a_0^4}+\frac{36a_1^2a_3a_7}{a_0^4}+\frac{36a_1^2a_4a_6}{a_0^4}+\frac{36a_2^2a_3a_5}{a_0^4}+\frac{36a_1a_2^2a_7}{a_0^4}+\frac{36a_2a_3^2a_4}{a_0^4}+\frac{36a_1a_3^2a_5}{a_0^4}+\frac{36a_1a_3a_4^2}{a_0^4}-\frac{48a_1^3a_2a_7}{a_0^5}-\frac{48a_1^3a_3a_6}{a_0^5}-\frac{48a_1^3a_4a_5}{a_0^5}-\frac{48a_1a_2^3a_5}{a_0^5}-\frac{48a_1a_2a_3^3}{a_0^5}+\frac{60a_1^4a_2a_6}{a_0^6}+\frac{60a_1^4a_3a_5}{a_0^6}+\frac{60a_1a_2^4a_3}{a_0^6}-\frac{72a_1^5a_2a_5}{a_0^7}-\frac{72a_1^5a_3a_4}{a_0^7}+\frac{84a_1^6a_2a_4}{a_0^8}-\frac{96a_1^7a_2a_3}{a_0^9}-\frac{72a_1^2a_2^2a_6}{a_0^5}-\frac{72a_1^2a_3^2a_4}{a_0^5}-\frac{72a_1^2a_2a_4^2}{a_0^5}+\frac{120a_1^3a_2^2a_5}{a_0^6}+\frac{120a_1^2a_2^3a_4}{a_0^6}-\frac{180a_1^4a_2^2a_4}{a_0^7}-\frac{180a_1^4a_2a_3^2}{a_0^7}+\frac{252a_1^5a_2^2a_3}{a_0^8}-\frac{240a_1^3a_2^3a_3}{a_0^7}+\frac{180a_1^2a_2^2a_3^2}{a_0^6}+\frac{72a_1a_2a_3a_6}{a_0^4}+\frac{72a_1a_2a_4a_5}{a_0^4}-\frac{144a_1^2a_2a_3a_5}{a_0^5}-\frac{144a_1a_2^2a_3a_4}{a_0^5}+\frac{240a_1^3a_2a_3a_4}{a_0^6}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{13}}=-\frac{13a_{13}}{a_0}-\frac{a_1^{13}}{a_0^{13}}+\frac{13a_1a_{12}}{a_0^2}+\frac{13a_2a_{11}}{a_0^2}+\frac{13a_3a_{10}}{a_0^2}+\frac{13a_4a_9}{a_0^2}+\frac{13a_5a_8}{a_0^2}+\frac{13a_6a_7}{a_0^2}-\frac{13a_1^2a_{11}}{a_0^3}-\frac{13a_1a_6^2}{a_0^3}-\frac{13a_3a_5^2}{a_0^3}-\frac{13a_2^2a_9}{a_0^3}-\frac{13a_3^2a_7}{a_0^3}-\frac{13a_4^2a_5}{a_0^3}+\frac{13a_1^3a_{10}}{a_0^4}+\frac{13a_1a_4^3}{a_0^4}+\frac{13a_2^3a_7}{a_0^4}+\frac{13a_3^3a_4}{a_0^4}-\frac{13a_1^4a_9}{a_0^5}-\frac{13a_1a_3^4}{a_0^5}-\frac{13a_2^4a_5}{a_0^5}+\frac{13a_1^5a_8}{a_0^6}+\frac{13a_2^5a_3}{a_0^6}-\frac{13a_1^6a_7}{a_0^7}-\frac{13a_1a_2^6}{a_0^7}+\frac{13a_1^7a_6}{a_0^8}-\frac{13a_1^8a_5}{a_0^9}+\frac{13a_1^9a_4}{a_0^{10}}-\frac{13a_1^{10}a_3}{a_0^{11}}+\frac{13a_1^{11}a_2}{a_0^{12}}-\frac{26a_1^3a_5^2}{a_0^5}-\frac{26a_2^2a_3^3}{a_0^5}-\frac{39a_1^5a_4^2}{a_0^7}-\frac{52a_1^7a_3^2}{a_0^9}-\frac{65a_1^9a_2^2}{a_0^{11}}-\frac{65a_1^4a_3^3}{a_0^7}+\frac{91a_1^3a_2^5}{a_0^8}+\frac{156a_1^7a_2^3}{a_0^{10}}-\frac{182a_1^5a_2^4}{a_0^9}-$$

$$\frac{26a_1a_2a_{10}}{a_0^3}-\frac{26a_1a_3a_9}{a_0^3}-\frac{26a_1a_4a_8}{a_0^3}-\frac{26a_1a_5a_7}{a_0^3}-\frac{26a_2a_3a_8}{a_0^3}-\frac{26a_2a_4a_7}{a_0^3}-\frac{26a_2a_5a_6}{a_0^3}-\frac{26a_3a_4a_6}{a_0^3}+\frac{39a_1^2a_2a_9}{a_0^4}+\frac{39a_1^2a_3a_8}{a_0^4}+\frac{39a_1^2a_4a_7}{a_0^4}+\frac{39a_1^2a_5a_6}{a_0^4}+\frac{39a_1a_2^2a_8}{a_0^4}+\frac{39a_1a_3^2a_6}{a_0^4}+\frac{39a_1a_2a_5^2}{a_0^4}+\frac{39a_2^2a_3a_6}{a_0^4}+\frac{39a_2^2a_4a_5}{a_0^4}+\frac{39a_2a_3^2a_5}{a_0^4}+\frac{39a_2a_3a_4^2}{a_0^4}-\frac{52a_1^3a_2a_8}{a_0^5}-\frac{52a_1^3a_3a_7}{a_0^5}-\frac{52a_1^3a_4a_6}{a_0^5}-\frac{52a_1a_2^3a_6}{a_0^5}-\frac{52a_2^3a_3a_4}{a_0^5}+\frac{65a_1^4a_2a_7}{a_0^6}+\frac{65a_1^4a_3a_6}{a_0^6}+\frac{65a_1^4a_4a_5}{a_0^6}+\frac{65a_1a_2^4a_4}{a_0^6}-\frac{78a_1^5a_2a_6}{a_0^7}-\frac{78a_1^5a_3a_5}{a_0^7}+\frac{91a_1^6a_2a_5}{a_0^8}+\frac{91a_1^6a_3a_4}{a_0^8}-\frac{104a_1^7a_2a_4}{a_0^9}+\frac{117a_1^8a_2a_3}{a_0^{10}}-\frac{78a_1^2a_2^2a_7}{a_0^5}-\frac{78a_1^2a_3^2a_5}{a_0^5}-\frac{78a_1^2a_3a_4^2}{a_0^5}-\frac{78a_1a_2^2a_4^2}{a_0^5}+\frac{130a_1^3a_2^2a_6}{a_0^6}+\frac{130a_1^3a_3^2a_4}{a_0^6}+\frac{130a_1^3a_2a_4^2}{a_0^6}+\frac{130a_1^2a_3^2a_5}{a_0^6}+\frac{130a_1a_2^3a_3^2}{a_0^6}+\frac{130a_1^2a_2a_3^3}{a_0^6}-\frac{195a_1^4a_2^2a_5}{a_0^7}-\frac{195a_1^2a_2^4a_3}{a_0^7}+\frac{273a_1^5a_2^2a_4}{a_0^8}+\frac{273a_1^5a_2a_3^2}{a_0^8}-\frac{364a_1^6a_2^2a_3}{a_0^9}-\frac{260a_1^3a_2^3a_4}{a_0^7}+\frac{455a_1^4a_2^3a_3}{a_0^8}-\frac{390a_1^3a_2^2a_3^2}{a_0^7}+\frac{78a_1a_2a_3a_7}{a_0^4}+\frac{78a_1a_2a_4a_6}{a_0^4}+\frac{78a_1a_3a_4a_5}{a_0^4}-\frac{156a_1^2a_2a_3a_6}{a_0^5}-\frac{156a_1^2a_2a_4a_5}{a_0^5}-\frac{156a_1a_2^2a_3a_5}{a_0^5}-\frac{156a_1a_2a_3^2a_4}{a_0^5}+\frac{260a_1^3a_2a_3a_5}{a_0^6}-\frac{390a_1^4a_2a_3a_4}{a_0^7}+\frac{390a_1^2a_2^2a_3a_4}{a_0^6}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{14}}=-\frac{14a_{14}}{a_0}+\frac{7a_7^2}{a_0^2}-\frac{2a_7^2}{a_0^7}+\frac{a_1^{14}}{a_0^{14}}+\frac{14a_1a_{13}}{a_0^2}+\frac{14a_2a_{12}}{a_0^2}+\frac{14a_3a_{11}}{a_0^2}+\frac{14a_4a_{10}}{a_0^2}+\frac{14a_5a_9}{a_0^2}+\frac{14a_6a_8}{a_0^2}-\frac{14a_1^2a_{12}}{a_0^3}-\frac{14a_2a_6^2}{a_0^3}-\frac{14a_4a_5^2}{a_0^3}-\frac{14a_2^2a_{10}}{a_0^3}-\frac{14a_3^2a_8}{a_0^3}-\frac{14a_4^2a_6}{a_0^3}+\frac{14a_1^3a_{11}}{a_0^4}+\frac{14a_2a_4^3}{a_0^4}+\frac{14a_2^3a_8}{a_0^4}+\frac{14a_3^3a_5}{a_0^4}-\frac{14a_1^4a_{10}}{a_0^5}-\frac{14a_2a_3^4}{a_0^5}-\frac{14a_2^4a_6}{a_0^5}+\frac{14a_1^5a_9}{a_0^6}+\frac{14a_2^5a_4}{a_0^6}-\frac{14a_1^6a_8}{a_0^7}+\frac{14a_1^7a_7}{a_0^8}-\frac{14a_1^8a_6}{a_0^9}+\frac{14a_1^9a_5}{a_0^{10}}-\frac{14a_1^{10}a_4}{a_0^{11}}+\frac{14a_1^{11}a_3}{a_0^{12}}-\frac{14a_1^{12}a_2}{a_0^{13}}+\frac{21a_1^2a_6^2}{a_0^4}+\frac{21a_2^2a_5^2}{a_0^4}+\frac{21a_3^2a_4^2}{a_0^4}-\frac{28a_1^2a_4^3}{a_0^5}-\frac{28a_2^3a_4^2}{a_0^5}+\frac{35a_1^4a_5^2}{a_0^6}+\frac{35a_1^2a_3^4}{a_0^6}+\frac{35a_2^4a_3^2}{a_0^6}+\frac{49a_1^2a_2^6}{a_0^8}+\frac{49a_1^6a_4^2}{a_0^8}+\frac{63a_1^8a_3^2}{a_0^{10}}+\frac{77a_1^{10}a_2^2}{a_0^{12}}+\frac{98a_1^5a_3^3}{a_0^8}-\frac{210a_1^8a_2^3}{a_0^{11}}-\frac{196a_1^4a_2^5}{a_0^9}+\frac{294a_1^6a_2^4}{a_0^{10}}-\frac{28a_1a_2a_{11}}{a_0^3}-\frac{28a_1a_3a_{10}}{a_0^3}-\frac{28a_1a_4a_9}{a_0^3}-\frac{28a_1a_5a_8}{a_0^3}-\frac{28a_1a_6a_7}{a_0^3}-\frac{28a_2a_3a_9}{a_0^3}-\frac{28a_2a_4a_8}{a_0^3}-\frac{28a_2a_5a_7}{a_0^3}-\frac{28a_3a_4a_7}{a_0^3}-\frac{28a_3a_5a_6}{a_0^3}+\frac{42a_1^2a_2a_{10}}{a_0^4}+\frac{42a_1^2a_3a_9}{a_0^4}+\frac{42a_1^2a_4a_8}{a_0^4}+\frac{42a_1^2a_5a_7}{a_0^4}+\frac{42a_1a_3a_5^2}{a_0^4}+\frac{42a_1a_2^2a_9}{a_0^4}+\frac{42a_1a_3^2a_7}{a_0^4}+\frac{42a_1a_4^2a_5}{a_0^4}+\frac{42a_2^2a_3a_7}{a_0^4}+\frac{42a_2^2a_4a_6}{a_0^4}+\frac{42a_2a_3^2a_6}{a_0^4}-\frac{56a_1^3a_2a_9}{a_0^5}-\frac{56a_1^3a_3a_8}{a_0^5}-\frac{56a_1^3a_4a_7}{a_0^5}-\frac{56a_1^3a_5a_6}{a_0^5}-\frac{56a_{n-1}a_2^3a_7}{a_0^5}-\frac{56a_1a_3^3a_4}{a_0^5}-\frac{56a_2^3a_3a_5}{a_0^5}+\frac{70a_1^4a_2a_8}{a_0^6}+\frac{70a_1^4a_3a_7}{a_0^6}+\frac{70a_1^4a_4a_6}{a_0^6}+\frac{70a_1a_2^4a_5}{a_0^6}-\frac{84a_1^5a_2a_7}{a_0^7}-\frac{84a_1^5a_3a_6}{a_0^7}-\frac{84a_1^5a_4a_5}{a_0^7}-\frac{84a_1a_2^5a_3}{a_0^7}+\frac{98a_1^6a_2a_6}{a_0^8}+\frac{98a_1^6a_3a_5}{a_0^8}-\frac{112a_1^7a_2a_5}{a_0^9}-\frac{112a_1^7a_3a_4}{a_0^9}+\frac{126a_1^8a_2a_4}{a_0^{10}}-\frac{140a_1^9a_2a_3}{a_0^{11}}-\frac{84a_1^2a_2^2a_8}{a_0^5}-\frac{84a_1^2a_3^2a_6}{a_0^5}-\frac{84a_1^2a_2a_5^2}{a_0^5}-\frac{84a_2^2a_3^2a_4}{a_0^5}+\frac{140a_1^3a_2^2a_7}{a_0^6}+\frac{140a_1^3a_3^2a_5}{a_0^6}+\frac{140a_1^3a_3a_4^2}{a_0^6}+\frac{140a_1^2a_2^3a_6}{a_0^6}+\frac{140a_1a_2^2a_3^3}{a_0^6}-$$

$$\frac{210a_1^4a_2^2a_6}{a_0^7}-\frac{210a_1^4a_3^2a_4}{a_0^7}-\frac{210a_1^4a_2a_4^2}{a_0^7}-\frac{210a_1^2a_2^4a_4}{a_0^7}+\frac{294a_1^5a_2^2a_5}{a_0^8}-\frac{392a_1^6a_2^2a_4}{a_0^9}-\frac{392a_1^6a_2a_3^2}{a_0^9}+\frac{504a_1^7a_2^2a_3}{a_0^{10}}-\frac{280a_1^3a_2^3a_5}{a_0^7}-\frac{280a_1^3a_2a_3^3}{a_0^7}+\frac{490a_1^4a_2^3a_4}{a_0^8}+\frac{490a_1^3a_2^4a_3}{a_0^8}-\frac{784a_1^5a_2^3a_3}{a_0^9}+\frac{210a_1^2a_2^2a_4^2}{a_0^6}-\frac{420a_1^2a_2^3a_3^2}{a_0^7}+\frac{735a_1^4a_2^2a_3^2}{a_0^8}+\frac{84a_1a_2a_3a_8}{a_0^4}+\frac{84a_1a_2a_4a_7}{a_0^4}+\frac{84a_1a_2a_5a_6}{a_0^4}+\frac{84a_1a_3a_4a_6}{a_0^4}+\frac{84a_2a_3a_4a_5}{a_0^4}-\frac{168a_1^2a_2a_3a_7}{a_0^5}-\frac{168a_1^2a_2a_4a_6}{a_0^5}-\frac{168a_1^2a_3a_4a_5}{a_0^5}-\frac{168a_1a_2^2a_3a_6}{a_0^5}-\frac{168a_1a_2^2a_4a_5}{a_0^5}-\frac{168a_1a_2a_3^2a_5}{a_0^5}-\frac{168a_1a_2a_3a_4^2}{a_0^5}+\frac{280a_1^3a_2a_3a_6}{a_0^6}+\frac{280a_1^3a_2a_4a_5}{a_0^6}+\frac{280a_1a_2^3a_3a_4}{a_0^6}-\frac{420a_1^4a_2a_3a_5}{a_0^7}+\frac{588a_1^5a_2a_3a_4}{a_0^8}+\frac{420a_1^2a_2^2a_3a_5}{a_0^6}+\frac{420a_1^2a_2a_3^2a_4}{a_0^6}-\frac{840a_1^3a_2^2a_3a_4}{a_0^7}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{15}}=-\frac{15a_{15}}{a_0}-\frac{5a_5^3}{a_0^3}-\frac{3a_3^5}{a_0^5}-\frac{a_1^{15}}{a_0^{15}}+\frac{15a_1a_{14}}{a_0^2}+\frac{15a_2a_{13}}{a_0^2}+\frac{15a_3a_{12}}{a_0^2}+\frac{15a_4a_{11}}{a_0^2}+\frac{15a_5a_{10}}{a_0^2}+\frac{15a_6a_9}{a_0^2}+\frac{15a_7a_8}{a_0^2}-\frac{15a_1^2a_{13}}{a_0^3}-\frac{15a_1a_7^2}{a_0^3}-\frac{15a_3a_6^2}{a_0^3}-\frac{15a_2^2a_{11}}{a_0^3}-\frac{15a_3^2a_9}{a_0^3}-\frac{15a_4^2a_7}{a_0^3}+\frac{15a_1^3a_{12}}{a_0^4}+\frac{15a_3a_4^3}{a_0^4}+\frac{15a_2^3a_9}{a_0^4}+\frac{15a_3^3a_6}{a_0^4}-\frac{15a_1^4a_{11}}{a_0^5}-\frac{15a_2^4a_7}{a_0^5}+\frac{15a_1^5a_{10}}{a_0^6}+\frac{15a_2^5a_5}{a_0^6}-\frac{15a_1^6a_9}{a_0^7}-\frac{15a_2^6a_3}{a_0^7}+\frac{15a_1^7a_8}{a_0^8}+\frac{15a_1a_2^7}{a_0^8}-\frac{15a_1^8a_7}{a_0^9}+\frac{15a_1^9a_6}{a_0^{10}}-\frac{15a_1^{10}a_5}{a_0^{11}}+\frac{15a_1^{11}a_4}{a_0^{12}}-\frac{15a_1^{12}a_3}{a_0^{13}}+\frac{15a_1^{13}a_2}{a_0^{14}}-\frac{30a_1^3a_6^2}{a_0^5}-\frac{45a_1^5a_5^2}{a_0^7}-\frac{60a_1^7a_4^2}{a_0^9}-\frac{75a_1^9a_3^2}{a_0^{11}}-\frac{90a_1^{11}a_2^2}{a_0^{13}}+\frac{50a_1^3a_4^3}{a_0^6}+\frac{50a_2^3a_3^3}{a_0^6}-\frac{75a_1^3a_3^4}{a_0^7}-\frac{140a_1^6a_3^3}{a_0^9}-\frac{140a_1^3a_2^6}{a_0^9}+\frac{275a_1^9a_2^3}{a_0^{12}}-\frac{450a_1^7a_2^4}{a_0^{11}}+\frac{378a_1^5a_2^5}{a_0^{10}}-\frac{30a_1a_2a_{12}}{a_0^3}-\frac{30a_1a_3a_{11}}{a_0^3}-\frac{30a_1a_4a_{10}}{a_0^3}-\frac{30a_1a_5a_9}{a_0^3}-\frac{30a_1a_6a_8}{a_0^3}-\frac{30a_2a_3a_{10}}{a_0^3}-\frac{30a_2a_4a_9}{a_0^3}-\frac{30a_2a_5a_8}{a_0^3}-\frac{30a_2a_6a_7}{a_0^3}-\frac{30a_3a_4a_8}{a_0^3}-\frac{30a_3a_5a_7}{a_0^3}-\frac{30a_4a_5a_6}{a_0^3}+\frac{45a_1^2a_2a_{11}}{a_0^4}+\frac{45a_1^2a_3a_{10}}{a_0^4}+\frac{45a_1^2a_4a_9}{a_0^4}+\frac{45a_1^2a_5a_8}{a_0^4}+\frac{45a_1^2a_6a_7}{a_0^4}+\frac{45a_1a_2a_6^2}{a_0^4}+\frac{45a_1a_4a_5^2}{a_0^4}+\frac{45a_1a_2^2a_{10}}{a_0^4}+\frac{45a_1a_3^2a_8}{a_0^4}+\frac{45a_1a_4^2a_6}{a_0^4}+\frac{45a_2^2a_3a_8}{a_0^4}+\frac{45a_2^2a_4a_7}{a_0^4}+\frac{45a_2^2a_5a_6}{a_0^4}+\frac{45a_2a_3^2a_7}{a_0^4}+\frac{45a_3^2a_4a_5}{a_0^4}+\frac{45a_2a_4^2a_5}{a_0^4}+\frac{45a_2a_3a_5^2}{a_0^4}-\frac{60a_1^3a_2a_{10}}{a_0^5}-\frac{60a_1^3a_3a_9}{a_0^5}-\frac{60a_1^3a_4a_8}{a_0^5}-\frac{60a_1^3a_5a_7}{a_0^5}-\frac{60a_1a_2a_4^3}{a_0^5}-\frac{60a_1a_2^3a_8}{a_0^5}-\frac{60a_1a_3^3a_5}{a_0^5}-\frac{60a_2^3a_3a_6}{a_0^5}-\frac{60a_2^3a_4a_5}{a_0^5}-\frac{60a_2a_3^3a_4}{a_0^5}+\frac{75a_1^4a_2a_9}{a_0^6}+\frac{75a_1^4a_3a_8}{a_0^6}+\frac{75a_1^4a_4a_7}{a_0^6}+\frac{75a_1^4a_5a_6}{a_0^6}+\frac{75a_1a_2a_3^4}{a_0^6}+\frac{75a_1a_2^4a_6}{a_0^6}+\frac{75a_2^4a_3a_4}{a_0^6}-\frac{90a_1^5a_2a_8}{a_0^7}-\frac{90a_1^5a_3a_7}{a_0^7}-\frac{90a_1^5a_4a_6}{a_0^7}-\frac{90a_1a_2^5a_4}{a_0^7}+\frac{105a_1^6a_2a_7}{a_0^8}+\frac{105a_1^6a_3a_6}{a_0^8}+\frac{105a_1^6a_4a_5}{a_0^8}-\frac{120a_1^7a_2a_6}{a_0^9}-\frac{120a_1^7a_3a_5}{a_0^9}+\frac{135a_1^8a_2a_5}{a_0^{10}}+\frac{135a_1^8a_3a_4}{a_0^{10}}-\frac{150a_1^9a_2a_4}{a_0^{11}}+\frac{165a_1^{10}a_2a_3}{a_0^{12}}-\frac{90a_1^2a_2^2a_9}{a_0^5}-\frac{90a_1^2a_3^2a_7}{a_0^5}-\frac{90a_1^2a_4^2a_5}{a_0^5}-\frac{90a_1^2a_3a_5^2}{a_0^5}-\frac{90a_1a_2^2a_5^2}{a_0^5}-\frac{90a_1a_3^2a_4^2}{a_0^5}-\frac{90a_2^2a_3^2a_5}{a_0^5}-\frac{90a_2^2a_3a_4^2}{a_0^5}+\frac{150a_1^3a_2^2a_8}{a_0^6}+\frac{150a_1^3a_3^2a_6}{a_0^6}+\frac{150a_1^3a_2a_5^2}{a_0^6}+$$

$$\frac{150a_1^2a_2^3a_7}{a_0^6}+\frac{150a_1^2a_3^3a_4}{a_0^6}+\frac{150a_1a_2^3a_4^2}{a_0^6}-\frac{225a_1^4a_2^2a_7}{a_0^7}-\frac{225a_1^4a_3^2a_5}{a_0^7}-\frac{225a_1^4a_3a_4^2}{a_0^7}-\frac{225a_1^2a_2^4a_5}{a_0^7}-\frac{225a_1a_2^4a_3^2}{a_0^7}+\frac{315a_1^5a_2^2a_6}{a_0^8}+\frac{315a_1^5a_3^2a_4}{a_0^8}+\frac{315a_1^5a_2a_4^2}{a_0^8}+\frac{315a_1^2a_2^5a_3}{a_0^8}-\frac{420a_1^6a_2^2a_5}{a_0^9}+\frac{540a_1^7a_2^2a_4}{a_0^{10}}+\frac{540a_1^7a_2a_3^2}{a_0^{10}}-\frac{675a_1^8a_2^2a_3}{a_0^{11}}-\frac{300a_1^3a_2^3a_6}{a_0^7}+\frac{525a_1^4a_2^3a_5}{a_0^8}+\frac{525a_1^4a_2a_3^3}{a_0^8}+\frac{525a_1^3a_2^4a_4}{a_0^8}-\frac{840a_1^5a_2^3a_4}{a_0^9}+\frac{1260a_1^6a_2^3a_3}{a_0^{10}}-\frac{1050a_1^4a_2^4a_3}{a_0^9}-\frac{450a_1^3a_2^2a_4^2}{a_0^7}-\frac{450a_1^2a_2^2a_3^3}{a_0^7}-\frac{1260a_1^5a_2^2a_3^2}{a_0^9}+\frac{1050a_1^3a_2^3a_3^2}{a_0^8}+\frac{90a_1a_2a_3a_9}{a_0^4}+\frac{90a_1a_2a_4a_8}{a_0^4}+\frac{90a_1a_2a_5a_7}{a_0^4}+\frac{90a_1a_3a_4a_7}{a_0^4}+\frac{90a_1a_3a_5a_6}{a_0^4}+\frac{90a_2a_3a_4a_6}{a_0^4}-\frac{180a_1^2a_2a_3a_8}{a_0^5}-\frac{180a_1^2a_2a_4a_7}{a_0^5}-\frac{180a_1^2a_2a_5a_6}{a_0^5}-\frac{180a_1^2a_3a_4a_6}{a_0^5}-\frac{180a_1a_2^2a_3a_7}{a_0^5}-\frac{180a_1a_2^2a_4a_6}{a_0^5}-\frac{180a_1a_2a_3^2a_6}{a_0^4}+\frac{300a_1^3a_2a_3a_7}{a_0^6}+\frac{360a_1^3a_2a_4a_6}{a_0^6}+\frac{360a_1^3a_3a_4a_5}{a_0^6}+\frac{300a_1a_2^3a_3a_5}{a_0^6}-\frac{450a_1^4a_2a_3a_6}{a_0^7}-\frac{450a_1^4a_2a_4a_5}{a_0^7}+\frac{630a_1^5a_2a_3a_5}{a_0^8}-\frac{840a_1^6a_2a_3a_4}{a_0^9}+\frac{450a_1^2a_2^2a_3a_6}{a_0^6}+\frac{450a_1^2a_2^2a_4a_5}{a_0^6}+\frac{450a_1^2a_2a_3^2a_5}{a_0^6}+\frac{450a_1^2a_2a_3a_4^2}{a_0^6}+\frac{450a_1a_2^2a_3^2a_4}{a_0^6}-\frac{900a_1^3a_2^2a_3a_5}{a_0^7}-\frac{900a_1^3a_2a_3^2a_4}{a_0^7}-\frac{900a_1^2a_2^3a_3a_4}{a_0^7}+\frac{1575a_1^4a_2^2a_3a_4}{a_0^8}-\frac{360a_1a_2a_3a_4a_5}{a_0^5}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{16}}=-\frac{16a_{16}}{a_0}+\frac{8a_8^2}{a_0^2}+\frac{4a_4^4}{a_0^4}+\frac{2a_2^8}{a_0^8}+\frac{a_1^{16}}{a_0^{16}}+\frac{16a_1a_{15}}{a_0^2}+\frac{16a_2a_{14}}{a_0^2}+\frac{16a_3a_{13}}{a_0^2}+\frac{16a_4a_{12}}{a_0^2}+\frac{16a_5a_{11}}{a_0^2}+\frac{16a_6a_{10}}{a_0^2}+\frac{16a_7a_9}{a_0^2}-\frac{16a_1^2a_{14}}{a_0^3}-\frac{16a_4a_6^2}{a_0^3}-\frac{16a_2^2a_{12}}{a_0^3}-\frac{16a_3^2a_{10}}{a_0^3}-\frac{16a_4^2a_8}{a_0^3}-\frac{16a_5^2a_6}{a_0^3}-\frac{16a_2a_7^2}{a_0^3}+\frac{16a_1^3a_{13}}{a_0^4}+\frac{16a_1a_5^3}{a_0^4}+\frac{16a_2^3a_{10}}{a_0^4}+\frac{16a_3^3a_7}{a_0^4}-\frac{16a_1^4a_{12}}{a_0^5}-\frac{16a_2^4a_8}{a_0^5}-\frac{16a_3^4a_4}{a_0^5}+\frac{16a_1^5a_{11}}{a_0^6}+\frac{16a_1a_3^5}{a_0^6}+\frac{16a_2^5a_6}{a_0^6}-\frac{16a_1^6a_{10}}{a_0^7}-\frac{16a_2^6a_4}{a_0^7}+\frac{16a_1^7a_9}{a_0^8}-\frac{16a_1^8a_8}{a_0^9}+\frac{16a_1^9a_7}{a_0^{10}}-\frac{16a_1^{10}a_6}{a_0^{11}}+\frac{16a_1^{11}a_5}{a_0^{12}}-\frac{16a_1^{12}a_4}{a_0^{13}}+\frac{16a_1^{13}a_3}{a_0^{14}}-\frac{16a_1^{14}a_2}{a_0^{15}}+\frac{24a_1^2a_7^2}{a_0^4}+\frac{24a_2^2a_6^2}{a_0^4}+\frac{24a_3^2a_5^2}{a_0^4}-\frac{32a_2^2a_4^3}{a_0^5}-\frac{32a_2^3a_5^2}{a_0^5}+\frac{40a_1^4a_6^2}{a_0^6}+\frac{40a_2^2a_3^4}{a_0^6}+\frac{40a_2^4a_4^2}{a_0^6}-\frac{48a_2^5a_3^2}{a_0^7}+\frac{56a_1^6a_5^2}{a_0^8}-\frac{64a_1^2a_2^7}{a_0^9}+\frac{72a_1^8a_4^2}{a_0^{10}}+\frac{88a_1^{10}a_3^2}{a_0^{12}}+\frac{104a_1^{12}a_2^2}{a_0^{14}}-\frac{80a_1^4a_4^3}{a_0^7}+\frac{192a_1^7a_3^3}{a_0^{10}}-\frac{352a_1^{10}a_2^3}{a_0^{13}}+\frac{140a_1^4a_3^4}{a_0^8}+\frac{336a_1^4a_2^6}{a_0^{10}}+\frac{660a_1^8a_2^4}{a_0^{12}}-\frac{672a_1^6a_2^5}{a_0^{11}}-\frac{32a_1a_2a_{13}}{a_0^3}-\frac{32a_1a_3a_{12}}{a_0^3}-\frac{32a_1a_4a_{11}}{a_0^3}-\frac{32a_1a_5a_{10}}{a_0^3}-\frac{32a_1a_6a_9}{a_0^3}-\frac{32a_1a_7a_8}{a_0^3}-\frac{32a_2a_3a_{11}}{a_0^3}-\frac{32a_2a_4a_{10}}{a_0^3}-\frac{32a_2a_5a_9}{a_0^3}-\frac{32a_2a_6a_8}{a_0^3}-\frac{32a_3a_4a_9}{a_0^3}-\frac{32a_3a_5a_8}{a_0^3}-\frac{32a_3a_6a_7}{a_0^3}-\frac{32a_4a_5a_7}{a_0^3}+\frac{48a_1^2a_2a_{12}}{a_0^4}+\frac{48a_1^2a_3a_{11}}{a_0^4}+\frac{48a_1^2a_4a_{10}}{a_0^4}+\frac{48a_1^2a_5a_9}{a_0^4}+\frac{48a_1^2a_6a_8}{a_0^4}+\frac{48a_1a_3a_6^2}{a_0^4}+\frac{48a_1a_2^2a_{11}}{a_0^4}+\frac{48a_1a_3^2a_9}{a_0^4}+\frac{48a_1a_4^2a_7}{a_0^4}+\frac{48a_2^2a_3a_9}{a_0^4}+\frac{48a_2^2a_4a_8}{a_0^4}+\frac{48a_2^2a_5a_7}{a_0^4}+\frac{48a_2a_3^2a_8}{a_0^4}+\frac{48a_3^2a_4a_6}{a_0^4}+\frac{48a_2a_4^2a_6}{a_0^4}+\frac{48a_3a_4^2a_5}{a_0^4}+\frac{48a_2a_4a_5^2}{a_0^4}-\frac{64a_1^3a_2a_{11}}{a_0^5}-\frac{64a_1^3a_3a_{10}}{a_0^5}-\frac{64a_1^3a_4a_9}{a_0^5}-$$

$$\frac{64a_1^3a_5a_8}{a_0^5}-\frac{64a_1^3a_6a_7}{a_0^5}-\frac{64a_1a_3a_4^3}{a_0^5}-\frac{64a_1a_2^3a_9}{a_0^5}-\frac{64a_1a_3^3a_6}{a_0^5}-\frac{64a_2^3a_3a_7}{a_0^5}-\frac{64a_2^3a_4a_6}{a_0^5}-\frac{64a_2a_3^3a_5}{a_0^5}+\frac{80a_1^4a_2a_{10}}{a_0^6}+\frac{80a_1^4a_3a_9}{a_0^6}+\frac{80a_1^4a_4a_8}{a_0^6}+\frac{80a_1^4a_5a_7}{a_0^6}+\frac{80a_1a_2^4a_7}{a_0^6}+\frac{80a_2^4a_3a_5}{a_0^6}-\frac{96a_1^5a_2a_9}{a_0^7}-\frac{96a_1^5a_3a_8}{a_0^7}-\frac{96a_1^5a_4a_7}{a_0^7}-\frac{96a_1^5a_5a_6}{a_0^7}-\frac{96a_1a_2^5a_5}{a_0^7}+\frac{112a_1^6a_2a_8}{a_0^8}+\frac{112a_1^6a_3a_7}{a_0^8}+\frac{112a_1^6a_4a_6}{a_0^8}+\frac{112a_1a_2^6a_3}{a_0^8}-\frac{128a_1^7a_2a_7}{a_0^9}-\frac{128a_1^7a_3a_6}{a_0^9}-\frac{128a_1^7a_4a_5}{a_0^9}+\frac{144a_1^8a_2a_6}{a_0^{10}}+\frac{144a_1^8a_3a_5}{a_0^{10}}-\frac{160a_1^9a_2a_5}{a_0^{11}}-\frac{160a_1^9a_3a_4}{a_0^{11}}+\frac{176a_1^{10}a_2a_4}{a_0^{12}}-\frac{192a_1^{11}a_2a_3}{a_0^{13}}-\frac{96a_1^2a_2^2a_{10}}{a_0^5}-\frac{96a_1^2a_3^2a_8}{a_0^5}-\frac{96a_1^2a_4^2a_6}{a_0^5}-\frac{96a_1^2a_2a_6^2}{a_0^5}-\frac{96a_1^2a_4a_5^2}{a_0^5}-\frac{96a_2^2a_3^2a_6}{a_0^5}-\frac{96a_2a_3^2a_4^2}{a_0^5}+\frac{160a_1^3a_2^2a_9}{a_0^6}+\frac{160a_1^3a_3^2a_7}{a_0^6}+\frac{160a_1^3a_4^2a_5}{a_0^6}+\frac{160a_1^3a_3a_5^2}{a_0^6}+\frac{160a_1^2a_2a_4^3}{a_0^6}+\frac{160a_1^2a_2^3a_8}{a_0^6}+\frac{160a_1^2a_3^3a_5}{a_0^6}+\frac{160a_2^3a_3^2a_4}{a_0^6}-\frac{240a_1^4a_2^2a_8}{a_0^7}-\frac{240a_1^4a_3^2a_6}{a_0^7}-\frac{240a_1^4a_2a_5^2}{a_0^7}-\frac{240a_1^2a_2a_3^4}{a_0^7}-\frac{240a_1^2a_2^4a_6}{a_0^7}+\frac{336a_1^5a_2^2a_7}{a_0^8}+\frac{336a_1^5a_3^2a_5}{a_0^8}+\frac{336a_1^5a_3a_4^2}{a_0^8}+\frac{336a_1^2a_2^5a_4}{a_0^8}-\frac{448a_1^6a_2^2a_6}{a_0^9}-\frac{448a_1^6a_3^2a_4}{a_0^9}-\frac{448a_1^6a_2a_4^2}{a_0^9}+\frac{576a_1^7a_2^2a_5}{a_0^{10}}-\frac{720a_1^8a_2^2a_4}{a_0^{11}}-\frac{720a_1^8a_2a_3^2}{a_0^{11}}+\frac{880a_1^9a_2^2a_3}{a_0^{12}}-\frac{320a_1^3a_2^3a_7}{a_0^7}-\frac{320a_1^3a_3^3a_4}{a_0^7}-\frac{320a_1a_2^3a_3^3}{a_0^7}+\frac{560a_1^4a_2^3a_6}{a_0^8}+\frac{560a_1^3a_2^4a_5}{a_0^8}-\frac{896a_1^5a_2^3a_5}{a_0^9}-\frac{896a_1^5a_2a_3^3}{a_0^9}-\frac{896a_1^3a_2^5a_3}{a_0^9}+\frac{1344a_1^6a_2^3a_4}{a_0^{10}}-\frac{1920a_1^7a_2^3a_3}{a_0^{11}}-\frac{1120a_1^4a_2^4a_4}{a_0^9}+\frac{2016a_1^5a_2^4a_3}{a_0^{10}}+\frac{240a_1^2a_2^2a_5^2}{a_0^6}+\frac{240a_1^2a_3^2a_4^2}{a_0^6}-\frac{480a_1^2a_2^3a_4^2}{a_0^7}+\frac{840a_1^2a_2^4a_3^2}{a_0^8}+\frac{840a_1^4a_2^2a_4^2}{a_0^8}+\frac{2016a_1^6a_2^2a_3^2}{a_0^{10}}+\frac{1120a_1^3a_2^2a_3^3}{a_0^8}-\frac{2240a_1^4a_2^3a_3^2}{a_0^9}+\frac{96a_1a_2a_3a_{10}}{a_0^4}+\frac{96a_1a_2a_4a_9}{a_0^4}+\frac{96a_1a_2a_5a_8}{a_0^4}+\frac{96a_1a_2a_6a_7}{a_0^4}+\frac{96a_1a_3a_4a_8}{a_0^4}+\frac{96a_1a_3a_5a_7}{a_0^4}+\frac{96a_1a_4a_5a_6}{a_0^4}+\frac{96a_2a_3a_4a_7}{a_0^4}+\frac{96a_2a_3a_5a_6}{a_0^4}-\frac{192a_1^2a_2a_3a_9}{a_0^5}-\frac{192a_1^2a_2a_4a_8}{a_0^5}-\frac{192a_1^2a_2a_5a_7}{a_0^5}-\frac{192a_1^2a_3a_4a_7}{a_0^5}-\frac{192a_1^2a_3a_5a_6}{a_0^5}-\frac{192a_1a_2^2a_3a_8}{a_0^5}-\frac{192a_1a_2^2a_4a_7}{a_0^5}-\frac{192a_1a_2^2a_5a_6}{a_0^5}-\frac{192a_1a_2a_3^2a_7}{a_0^5}-\frac{192a_1a_3^2a_4a_5}{a_0^5}-\frac{192a_1a_2a_4^2a_5}{a_0^5}-\frac{192a_1a_2a_3a_5^2}{a_0^5}-\frac{192a_2^2a_3a_4a_5}{a_0^5}+\frac{320a_1^3a_2a_3a_8}{a_0^6}+\frac{320a_1^3a_2a_4a_7}{a_0^6}+\frac{320a_1^3a_2a_5a_6}{a_0^6}+\frac{320a_1^3a_3a_4a_6}{a_0^6}+\frac{320a_1a_2^3a_3a_6}{a_0^6}+\frac{320a_1a_2^3a_4a_5}{a_0^6}+\frac{320a_1a_2a_3^3a_4}{a_0^6}-\frac{480a_1^4a_2a_3a_7}{a_0^7}-\frac{480a_1^4a_2a_4a_6}{a_0^7}-\frac{480a_1^4a_3a_4a_5}{a_0^7}-\frac{480a_1a_2^4a_3a_4}{a_0^7}+\frac{672a_1^5a_2a_3a_6}{a_0^8}+\frac{672a_1^5a_2a_4a_5}{a_0^8}-\frac{896a_1^6a_2a_3a_5}{a_0^9}+\frac{1152a_1^7a_2a_3a_4}{a_0^{10}}+\frac{480a_1^2a_2^2a_3a_7}{a_0^6}+\frac{480a_1^2a_2^2a_4a_6}{a_0^6}+\frac{480a_1^2a_2a_3^2a_6}{a_0^6}+\frac{480a_1a_2^2a_3^2a_5}{a_0^6}+\frac{480a_1a_2^2a_3a_4^2}{a_0^6}-\frac{960a_1^3a_2^2a_3a_6}{a_0^7}-\frac{960a_1^3a_2^2a_4a_5}{a_0^7}-\frac{960a_1^3a_2a_3^2a_5}{a_0^7}-\frac{960a_1^3a_2a_3a_4^2}{a_0^7}-\frac{960a_1^2a_2^3a_3a_5}{a_0^7}+\frac{1680a_1^4a_2^2a_3a_5}{a_0^8}+\frac{1680a_1^4a_2a_3^2a_4}{a_0^8}-\frac{2688a_1^5a_2^2a_3a_4}{a_0^9}+\frac{2240a_1^3a_2^3a_3a_4}{a_0^8}-\frac{1440a_1^2a_2^2a_3^2a_4}{a_0^7}-\frac{384a_1a_2a_3a_4a_6}{a_0^5}+\frac{960a_1^2a_2a_3a_4a_5}{a_0^6}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{17}}=-\frac{17a_{17}}{a_0}-\frac{a_1^{17}}{a_0^{17}}+\frac{17a_1a_{16}}{a_0^2}+\frac{17a_2a_{15}}{a_0^2}+\frac{17a_3a_{14}}{a_0^2}+\frac{17a_4a_{13}}{a_0^2}+\frac{17a_5a_{12}}{a_0^2}+\frac{17a_6a_{11}}{a_0^2}+\frac{17a_7a_{10}}{a_0^2}+\frac{17a_8a_9}{a_0^2}-\frac{17a_1^2a_{15}}{a_0^3}-\frac{17a_1a_8^2}{a_0^3}-\frac{17a_5a_6^2}{a_0^3}-\frac{17a_2^2a_{13}}{a_0^3}-\frac{17a_3^2a_{11}}{a_0^3}-\frac{17a_4^2a_9}{a_0^3}-\frac{17a_5^2a_7}{a_0^3}-\frac{17a_3a_7^2}{a_0^3}+\frac{17a_1^3a_{14}}{a_0^4}+\frac{17a_2^3a_{11}}{a_0^4}+\frac{17a_3^3a_8}{a_0^4}+\frac{17a_4^3a_5}{a_0^4}+\frac{17a_2a_5^3}{a_0^4}-\frac{17a_1^4a_{13}}{a_0^5}-\frac{17a_1a_4^4}{a_0^5}-\frac{17a_2^4a_9}{a_0^5}-\frac{17a_3^4a_5}{a_0^5}+\frac{17a_1^5a_{12}}{a_0^6}+\frac{17a_2a_3^5}{a_0^6}+\frac{17a_2^5a_7}{a_0^6}-\frac{17a_1^6a_{11}}{a_0^6}-\frac{17a_2^6a_5}{a_0^7}+\frac{17a_1^7a_{10}}{a_0^8}+\frac{17a_2^7a_3}{a_0^8}-\frac{17a_1^8a_9}{a_0^9}-\frac{17a_1a_2^8}{a_0^9}+\frac{17a_1^9a_8}{a_0^{10}}-\frac{17a_1^{10}a_7}{a_0^{11}}+\frac{17a_1^{11}a_6}{a_0^{12}}-\frac{17a_1^{12}a_5}{a_0^{13}}+\frac{17a_1^{13}a_4}{a_0^{14}}-\frac{17a_1^{14}a_3}{a_0^{15}}+\frac{17a_1^{15}a_2}{a_0^{16}}-\frac{34a_1^3a_7^2}{a_0^5}-\frac{34a_3^3a_4^2}{a_0^5}-\frac{34a_1^2a_5^3}{a_0^5}-\frac{51a_1^5a_6^2}{a_0^7}-\frac{51a_1^2a_3^5}{a_0^7}-\frac{68a_1^7a_5^2}{a_0^9}-\frac{85a_1^9a_4^2}{a_0^{11}}-\frac{102a_1^{11}a_3^2}{a_0^{13}}-\frac{119a_1^{13}a_2^2}{a_0^{15}}-\frac{85a_2^4a_3^3}{a_0^7}+\frac{119a_1^5a_4^3}{a_0^8}+\frac{204a_1^3a_2^7}{a_0^{10}}-\frac{255a_1^8a_3^3}{a_0^{11}}+\frac{442a_1^{11}a_2^3}{a_0^{14}}-\frac{238a_1^5a_3^4}{a_0^9}-\frac{935a_1^9a_2^4}{a_0^{13}}-\frac{714a_1^5a_2^6}{a_0^{11}}+\frac{1122a_1^7a_2^5}{a_0^{12}}-\frac{34a_1a_2a_{14}}{a_0^3}-\frac{34a_1a_3a_{13}}{a_0^3}-\frac{34a_1a_4a_{12}}{a_0^3}-\frac{34a_1a_5a_{11}}{a_0^3}-\frac{34a_1a_6a_{10}}{a_0^3}-\frac{34a_1a_7a_9}{a_0^3}-\frac{34a_2a_3a_{12}}{a_0^3}-\frac{34a_2a_4a_{11}}{a_0^3}-\frac{34a_2a_5a_{10}}{a_0^3}-\frac{34a_2a_6a_9}{a_0^3}-\frac{34a_2a_7a_8}{a_0^3}-\frac{34a_3a_4a_{10}}{a_0^3}-\frac{34a_3a_5a_9}{a_0^3}-\frac{34a_3a_6a_8}{a_0^3}-\frac{34a_4a_5a_8}{a_0^3}-\frac{34a_4a_6a_7}{a_0^3}+\frac{51a_1^2a_2a_{13}}{a_0^4}+\frac{51a_1^2a_3a_{12}}{a_0^4}+\frac{51a_1^2a_4a_{11}}{a_0^4}+\frac{51a_1^2a_5a_{10}}{a_0^4}+\frac{51a_1^2a_6a_9}{a_0^4}+\frac{51a_1^2a_7a_8}{a_0^4}+\frac{51a_1a_4a_6^2}{a_0^4}+\frac{51a_1a_2^2a_{12}}{a_0^4}+\frac{51a_1a_3^2a_{10}}{a_0^4}+\frac{51a_1a_4^2a_8}{a_0^4}+\frac{51a_1a_5^2a_6}{a_0^4}+\frac{51a_1a_2a_7^2}{a_0^4}+\frac{51a_2^2a_3a_{10}}{a_0^4}+\frac{51a_2^2a_4a_9}{a_0^4}+\frac{51a_2^2a_5a_8}{a_0^4}+\frac{51a_2^2a_6a_7}{a_0^4}+\frac{51a_2a_3^2a_9}{a_0^4}+\frac{51a_3^2a_4a_7}{a_0^4}+\frac{51a_3^2a_5a_6}{a_0^4}+\frac{51a_2a_4^2a_7}{a_0^4}+\frac{51a_3a_4^2a_6}{a_0^4}+\frac{51a_3a_4a_5^2}{a_0^4}-\frac{68a_1^3a_2a_{12}}{a_0^5}-\frac{68a_1^3a_3a_{11}}{a_0^5}-\frac{68a_1^3a_4a_{10}}{a_0^5}-\frac{68a_1^3a_5a_9}{a_0^5}-\frac{68a_1^3a_6a_8}{a_0^5}-\frac{68a_1a_2^3a_{10}}{a_0^5}-\frac{68a_1a_3^3a_7}{a_0^5}-\frac{68a_1a_2a_4^3}{a_0^5}-\frac{68a_2^3a_3a_8}{a_0^5}-\frac{68a_2^3a_4a_7}{a_0^5}-\frac{68a_2^3a_5a_6}{a_0^5}-\frac{68a_2a_3^3a_6}{a_0^5}-\frac{68a_2a_3a_4^3}{a_0^5}+\frac{85a_1^4a_2a_{11}}{a_0^6}+\frac{85a_1^4a_3a_{10}}{a_0^6}+\frac{85a_1^4a_4a_9}{a_0^6}+\frac{85a_1^4a_5a_8}{a_0^6}+\frac{85a_1^4a_6a_7}{a_0^6}+\frac{85a_1a_2^4a_8}{a_0^6}+\frac{85a_1a_3^4a_4}{a_0^6}+\frac{85a_2^4a_3a_6}{a_0^6}+\frac{85a_2^4a_4a_5}{a_0^6}-\frac{102a_1^5a_2a_{10}}{a_0^7}-\frac{102a_1^5a_3a_9}{a_0^7}-\frac{102a_1^5a_4a_8}{a_0^7}-\frac{102a_1^5a_5a_7}{a_0^7}-\frac{102a_1a_2^5a_6}{a_0^7}-\frac{102a_2^5a_3a_4}{a_0^7}+\frac{119a_1^6a_2a_9}{a_0^8}+\frac{119a_1^6a_3a_8}{a_0^8}+\frac{119a_1^6a_4a_7}{a_0^8}+\frac{119a_1^6a_5a_6}{a_0^8}+\frac{119a_1a_2^6a_4}{a_0^8}-\frac{136a_1^7a_2a_8}{a_0^9}-\frac{136a_1^7a_3a_7}{a_0^9}-\frac{136a_1^7a_4a_6}{a_0^9}+\frac{153a_1^8a_2a_7}{a_0^{10}}+\frac{153a_1^8a_3a_6}{a_0^{10}}+\frac{153a_1^8a_4a_5}{a_0^{10}}-\frac{170a_1^9a_2a_6}{a_0^{11}}-\frac{170a_1^9a_3a_5}{a_0^{11}}+\frac{187a_1^{10}a_2a_5}{a_0^{12}}+\frac{187a_1^{10}a_3a_4}{a_0^{12}}-\frac{204a_1^{11}a_2a_4}{a_0^{13}}+\frac{221a_1^{12}a_2a_3}{a_0^{14}}-\frac{102a_1^2a_3a_6^2}{a_0^5}-\frac{102a_1^2a_2^2a_{11}}{a_0^5}-\frac{102a_1^2a_3^2a_9}{a_0^5}-\frac{102a_1^2a_4^2a_7}{a_0^5}-\frac{102a_1a_2^2a_6^2}{a_0^5}-\frac{102a_1a_3^2a_5^2}{a_0^5}-\frac{102a_2^2a_3^2a_7}{a_0^5}-\frac{102a_2^2a_4^2a_5}{a_0^5}-\frac{102a_2^2a_3a_5^2}{a_0^5}+\frac{170a_1^3a_2^2a_{10}}{a_0^6}+\frac{170a_1^3a_3^2a_8}{a_0^6}+\frac{170a_1^3a_4^2a_6}{a_0^6}+\frac{170a_1^3a_4a_5^2}{a_0^6}+\frac{170a_1^3a_2a_6^2}{a_0^6}+\frac{170a_1a_2^2a_4^3}{a_0^6}+\frac{170a_1a_2^3a_5^2}{a_0^6}+\frac{170a_1^2a_3a_4^3}{a_0^6}+\frac{170a_1^2a_2^3a_9}{a_0^6}+$$

$$\frac{170a_1^2a_3^3a_6}{a_0^6}+\frac{170a_2^3a_3^2a_5}{a_0^6}+\frac{170a_2^3a_3a_4^2}{a_0^6}+\frac{170a_2^2a_3^3a_4}{a_0^6}-\frac{255a_1^4a_2^2a_9}{a_0^7}-\frac{255a_1^4a_3^2a_7}{a_0^7}-$$
$$\frac{255a_1^4a_4^2a_5}{a_0^7}-\frac{255a_1^4a_3a_5^2}{a_0^7}-\frac{255a_1^2a_2^4a_7}{a_0^7}-\frac{255a_1a_2^2a_3^4}{a_0^7}-\frac{255a_1a_2^4a_4^2}{a_0^7}+\frac{357a_1^5a_2^2a_8}{a_0^8}+$$
$$\frac{357a_1^5a_3^2a_6}{a_0^8}+\frac{357a_1^5a_2a_5^2}{a_0^8}+\frac{357a_1^2a_2^5a_5}{a_0^8}+\frac{357a_1a_2^5a_3^2}{a_0^8}-\frac{476a_1^6a_2^2a_7}{a_0^9}-\frac{476a_1^6a_3^2a_5}{a_0^9}-$$
$$\frac{476a_1^6a_3a_4^2}{a_0^9}-\frac{476a_1^2a_2^6a_3}{a_0^9}+\frac{612a_1^7a_2^2a_6}{a_0^{10}}+\frac{612a_1^7a_3^2a_4}{a_0^{10}}+\frac{612a_1^7a_2a_4^2}{a_0^{10}}-\frac{765a_1^8a_2^2a_5}{a_0^{11}}+$$
$$\frac{935a_1^9a_2^2a_4}{a_0^{12}}+\frac{935a_1^9a_2a_3^2}{a_0^{12}}-\frac{1122a_1^{10}a_2^2a_3}{a_0^{13}}-\frac{340a_1^3a_2a_4^3}{a_0^7}-\frac{340a_1^3a_2^3a_8}{a_0^7}-\frac{340a_1^3a_3^3a_5}{a_0^7}+$$
$$\frac{595a_1^4a_2^3a_7}{a_0^8}+\frac{595a_1^4a_3^3a_4}{a_0^8}+\frac{595a_1^3a_2a_3^4}{a_0^8}+\frac{595a_1^3a_2^4a_6}{a_0^8}-\frac{952a_1^5a_2^3a_6}{a_0^9}-\frac{952a_1^3a_2^5a_4}{a_0^9}+$$
$$\frac{1428a_1^6a_2^3a_5}{a_0^{10}}+\frac{1428a_1^6a_2a_3^3}{a_0^{10}}-\frac{2040a_1^7a_2^3a_4}{a_0^{11}}+\frac{2805a_1^8a_2^3a_3}{a_0^{12}}-\frac{1190a_1^4a_2^4a_5}{a_0^9}+$$
$$\frac{2142a_1^5a_2^4a_4}{a_0^{10}}+\frac{2142a_1^4a_2^5a_3}{a_0^{10}}-\frac{3570a_1^6a_2^4a_3}{a_0^{11}}-\frac{510a_1^3a_2^2a_5^2}{a_0^7}-\frac{510a_1^3a_3^2a_4^2}{a_0^7}+\frac{1190a_1^3a_2^3a_4^2}{a_0^8}+$$
$$\frac{1190a_1^2a_2^3a_3^3}{a_0^8}-\frac{2380a_1^3a_2^4a_3^2}{a_0^9}-\frac{1428a_1^5a_2^2a_4^2}{a_0^9}-\frac{3060a_1^7a_2^2a_3^2}{a_0^{11}}-\frac{2380a_1^4a_2^2a_3^3}{a_0^9}+$$
$$\frac{4284a_1^5a_2^3a_3^2}{a_0^{10}}+\frac{102a_1a_2a_3a_{11}}{a_0^4}+\frac{102a_1a_2a_4a_{10}}{a_0^4}+\frac{102a_1a_2a_5a_9}{a_0^4}+\frac{102a_1a_2a_6a_8}{a_0^4}+$$
$$\frac{102a_1a_3a_4a_9}{a_0^4}+\frac{102a_1a_3a_5a_8}{a_0^4}+\frac{102a_1a_3a_6a_7}{a_0^4}+\frac{102a_1a_4a_5a_7}{a_0^4}+\frac{102a_2a_3a_4a_8}{a_0^4}+$$
$$\frac{102a_2a_3a_5a_7}{a_0^4}+\frac{102a_2a_4a_5a_6}{a_0^4}-\frac{204a_1^2a_2a_3a_{10}}{a_0^5}-\frac{204a_1^2a_2a_4a_9}{a_0^5}-\frac{204a_1^2a_2a_5a_8}{a_0^5}-$$
$$\frac{204a_1^2a_2a_6a_7}{a_0^5}-\frac{204a_1^2a_3a_4a_8}{a_0^5}-\frac{204a_1^2a_3a_5a_7}{a_0^5}-\frac{204a_1^2a_4a_5a_6}{a_0^5}-\frac{204a_1a_2^2a_3a_9}{a_0^5}-$$
$$\frac{204a_1a_2^2a_4a_8}{a_0^5}-\frac{204a_1a_2^2a_5a_7}{a_0^5}-\frac{204a_1a_2a_3^2a_8}{a_0^5}-\frac{204a_1a_3^2a_4a_6}{a_0^5}-\frac{204a_1a_2a_4^2a_6}{a_0^5}-$$
$$\frac{204a_1a_3a_4^2a_5}{a_0^5}-\frac{204a_1a_2a_4a_5^2}{a_0^5}-\frac{204a_2^2a_3a_4a_6}{a_0^5}-\frac{204a_2a_3^2a_4a_5}{a_0^5}+\frac{340a_1^3a_2a_3a_9}{a_0^6}+$$
$$\frac{340a_1^3a_2a_4a_8}{a_0^6}+\frac{340a_1^3a_2a_5a_7}{a_0^6}+\frac{340a_1^3a_3a_4a_7}{a_0^6}+\frac{340a_1^3a_3a_5a_6}{a_0^6}+\frac{340a_1a_2^3a_3a_7}{a_0^6}+$$
$$\frac{340a_1a_2^3a_4a_6}{a_0^6}+\frac{340a_1a_2a_3^3a_5}{a_0^6}-\frac{510a_1^4a_2a_3a_8}{a_0^7}-\frac{510a_1^4a_2a_4a_7}{a_0^7}-\frac{510a_1^4a_2a_5a_6}{a_0^7}-$$
$$\frac{510a_1^4a_3a_4a_6}{a_0^7}-\frac{510a_1a_2^4a_3a_5}{a_0^7}+\frac{714a_1^5a_2a_3a_7}{a_0^8}+\frac{714a_1^5a_2a_4a_6}{a_0^8}+\frac{714a_1^5a_3a_4a_5}{a_0^8}-$$
$$\frac{952a_1^6a_2a_3a_6}{a_0^9}-\frac{952a_1^6a_2a_4a_5}{a_0^9}+\frac{1224a_1^7a_2a_3a_5}{a_0^{10}}-\frac{1530a_1^8a_2a_3a_4}{a_0^{11}}+\frac{510a_1^2a_2^2a_3a_8}{a_0^6}+$$
$$\frac{510a_1^2a_2^2a_4a_7}{a_0^6}+\frac{510a_1^2a_2^2a_5a_6}{a_0^6}+\frac{510a_1^2a_2a_3^2a_7}{a_0^6}+\frac{510a_1^2a_3^2a_4a_5}{a_0^6}+\frac{510a_1^2a_2a_4^2a_5}{a_0^6}+$$
$$\frac{510a_1^2a_2a_3a_5^2}{a_0^6}+\frac{510a_1a_2^2a_3^2a_6}{a_0^6}+\frac{510a_1a_2a_3^2a_4^2}{a_0^6}-\frac{1020a_1^3a_2^2a_3a_7}{a_0^7}-\frac{1020a_1^3a_2^2a_4a_6}{a_0^7}-$$
$$\frac{1020a_1^3a_2a_3^2a_6}{a_0^7}-\frac{1020a_1^2a_2^3a_3a_6}{a_0^7}-\frac{1020a_1^2a_2^3a_4a_5}{a_0^7}-\frac{1020a_1^2a_2a_3^3a_4}{a_0^7}-\frac{1020a_1a_2^3a_3^2a_4}{a_0^7}+$$
$$\frac{1785a_1^4a_2^2a_3a_6}{a_0^8}+\frac{1785a_1^4a_2^2a_4a_5}{a_0^8}+\frac{1785a_1^4a_2a_3^2a_5}{a_0^8}+\frac{1785a_1^4a_2a_3a_4^2}{a_0^8}+\frac{1785a_1^2a_2^4a_3a_4}{a_0^8}-$$
$$\frac{2856a_1^5a_2^2a_3a_5}{a_0^9}-\frac{2856a_1^5a_2a_3^2a_4}{a_0^9}+\frac{4284a_1^6a_2^2a_3a_4}{a_0^{10}}+\frac{2380a_1^3a_2^3a_3a_5}{a_0^8}-\frac{4760a_1^4a_2^3a_3a_4}{a_0^9}-$$

$$\frac{1530a_1^2a_2^2a_3^2a_5}{a_0^7}-\frac{1530a_1^2a_2^2a_3a_4^2}{a_0^7}+\frac{3570a_1^3a_2^2a_3^2a_4}{a_0^8}-\frac{408a_1a_2a_3a_4a_7}{a_0^5}-\frac{408a_1a_2a_3a_5a_6}{a_0^5}+\frac{1020a_1^2a_2a_3a_4a_6}{a_0^6}+\frac{1020a_1a_2^2a_3a_4a_5}{a_0^6}-\frac{2040a_1^3a_2a_3a_4a_5}{a_0^7}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{18}}=-\frac{18a_{18}}{a_0}+\frac{9a_9^2}{a_0^2}-\frac{6a_6^3}{a_0^3}+\frac{3a_3^6}{a_0^6}-\frac{2a_2^9}{a_0^9}+\frac{a_1^{18}}{a_0^{18}}+\frac{18a_1a_{17}}{a_0^2}+\frac{18a_2a_{16}}{a_0^2}+\frac{18a_3a_{15}}{a_0^2}+\frac{18a_4a_{14}}{a_0^2}+\frac{18a_5a_{13}}{a_0^2}+\frac{18a_6a_{12}}{a_0^2}+\frac{18a_7a_{11}}{a_0^2}+\frac{18a_8a_{10}}{a_0^2}-\frac{18a_1^2a_{16}}{a_0^3}-\frac{18a_2a_8^2}{a_0^3}-\frac{18a_2^2a_{14}}{a_0^3}-\frac{18a_3^2a_{12}}{a_0^3}-\frac{18a_4^2a_{10}}{a_0^3}-\frac{18a_5^2a_8}{a_0^3}-\frac{18a_4a_7^2}{a_0^3}+\frac{18a_1^3a_{15}}{a_0^4}+\frac{18a_2^3a_{12}}{a_0^4}+\frac{18a_3^3a_9}{a_0^4}+\frac{18a_4^3a_6}{a_0^4}+\frac{18a_3a_5^3}{a_0^4}-\frac{18a_1^4a_{14}}{a_0^5}-\frac{18a_2a_4^4}{a_0^5}-\frac{18a_2^4a_{10}}{a_0^5}-\frac{18a_3^4a_6}{a_0^5}+\frac{18a_1^5a_{13}}{a_0^6}+\frac{18a_2^5a_8}{a_0^6}-\frac{18a_1^6a_{12}}{a_0^7}-\frac{18a_2^6a_6}{a_0^7}+\frac{18a_1^7a_{11}}{a_0^8}+\frac{18a_2^7a_4}{a_0^8}-\frac{18a_1^8a_{10}}{a_0^9}+\frac{18a_1^9a_9}{a_0^{10}}-\frac{18a_1^{10}a_8}{a_0^{11}}+\frac{18a_1^{11}a_7}{a_0^{12}}-\frac{18a_1^{12}a_6}{a_0^{13}}+\frac{18a_1^{13}a_5}{a_0^{14}}-\frac{18a_1^{14}a_4}{a_0^{15}}+\frac{18a_1^{15}a_3}{a_0^{16}}-\frac{18a_1^{16}a_2}{a_0^{17}}+\frac{27a_1^2a_8^2}{a_0^4}+\frac{27a_2^2a_7^2}{a_0^4}+\frac{27a_3^2a_6^2}{a_0^4}+\frac{27a_4^2a_5^2}{a_0^4}-\frac{36a_2^3a_6^2}{a_0^5}-\frac{36a_3^2a_4^3}{a_0^5}+\frac{45a_1^4a_7^2}{a_0^6}+\frac{45a_1^2a_4^4}{a_0^6}+\frac{45a_2^4a_5^2}{a_0^6}-\frac{54a_2^5a_4^2}{a_0^7}+\frac{63a_1^6a_6^2}{a_0^8}+\frac{63a_2^6a_3^2}{a_0^8}+\frac{81a_1^8a_5^2}{a_0^{10}}+\frac{81a_1^2a_2^8}{a_0^{10}}+\frac{99a_1^{10}a_4^2}{a_n^{12}}+\frac{117a_1^{12}a_3^2}{a_0^{14}}+\frac{135a_1^{14}a_2^2}{a_0^{16}}+\frac{60a_1^3a_5^3}{a_0^6}+\frac{60a_2^3a_4^3}{a_0^6}-\frac{90a_2^3a_3^4}{a_0^7}+\frac{126a_1^3a_3^5}{a_0^8}-\frac{168a_1^6a_4^3}{a_0^9}+\frac{330a_1^9a_3^3}{a_0^{12}}-\frac{546a_1^{12}a_2^3}{a_0^{15}}+\frac{378a_1^6a_3^4}{a_0^{10}}-\frac{540a_1^4a_2^7}{a_0^{11}}+\frac{1287a_1^{10}a_2^4}{a_0^{14}}-\frac{1782a_1^8a_2^5}{a_0^{13}}+\frac{1386a_1^6a_2^6}{a_0^{12}}-\frac{36a_1a_2a_{15}}{a_0^3}-\frac{36a_1a_3a_{14}}{a_0^3}-\frac{36a_1a_4a_{13}}{a_0^3}-\frac{36a_1a_5a_{12}}{a_0^3}-\frac{36a_1a_6a_{11}}{a_0^3}-\frac{36a_1a_7a_{10}}{a_0^3}-\frac{36a_1a_8a_9}{a_0^3}-\frac{36a_2a_3a_{13}}{a_{00}^3}-\frac{36a_2a_4a_{12}}{a_0^3}-\frac{36a_2a_5a_{11}}{a_0^3}-\frac{36a_2a_6a_{10}}{a_0^3}-\frac{36a_2a_7a_9}{a_0^3}-\frac{36a_3a_4a_{11}}{a_0^3}-\frac{36a_3a_5a_{10}}{a_0^3}-\frac{36a_3a_6a_9}{a_0^3}-\frac{36a_3a_7a_8}{a_0^3}-\frac{36a_4a_5a_9}{a_0^3}-\frac{36a_4a_6a_8}{a_0^3}-\frac{36a_5a_6a_7}{a_0^3}+\frac{54a_1^2a_2a_{14}}{a_0^4}+\frac{54a_1^2a_3a_{13}}{a_0^4}+\frac{54a_1^2a_4a_{12}}{a_0^4}+\frac{54a_1^2a_5a_{11}}{a_0^4}+\frac{54a_1^2a_6a_{10}}{a_0^4}+\frac{54a_7a_9}{a_0^4}+\frac{54a_1a_5a_6^2}{a_0^4}+\frac{54a_1a_2^2a_{13}}{a_0^4}+\frac{54a_1a_3^2a_{11}}{a_0^4}+\frac{54a_1a_4^2a_9}{a_0^4}+\frac{54a_1a_5^2a_7}{a_0^4}+\frac{54a_1a_3a_7^2}{a_0^4}+\frac{54a_2^2a_3a_{11}}{a_0^4}+\frac{54a_2^2a_4a_{10}}{a_0^4}+\frac{54a_2^2a_5a_9}{a_0^4}+\frac{54a_2^2a_6a_8}{a_0^4}+\frac{54a_2a_3^2a_{10}}{a_0^4}+\frac{54a_3^2a_4a_8}{a_0^4}+\frac{54a_3^2a_5a_7}{a_0^4}+\frac{54a_2a_4^2a_8}{a_0^4}+\frac{54a_3a_4^2a_7}{a_0^4}+\frac{54a_2a_5^2a_6}{a_0^4}+\frac{54a_2a_4a_6^2}{a_0^4}-\frac{72a_1^3a_2a_{13}}{a_0^5}-\frac{72a_1^3a_3a_{12}}{a_0^5}-\frac{72a_1^3a_4a_{11}}{a_0^5}-\frac{72a_1^3a_5a_{10}}{a_0^5}-\frac{72a_1^3a_6a_9}{a_0^5}-\frac{72a_1^3a_7a_8}{a_0^5}-\frac{72a_1a_2^3a_{11}}{a_0^5}-\frac{72a_1a_3^3a_8}{a_0^5}-\frac{72a_1a_4^3a_5}{a_0^5}-\frac{72a_1a_2a_5^3}{a_0^5}-\frac{72a_2^3a_3a_9}{a_0^5}-\frac{72a_2^3a_4a_8}{a_0^5}-\frac{72a_2^3a_5a_7}{a_0^5}-\frac{72a_2a_3^3a_7}{a_0^5}-\frac{72a_3^3a_4a_5}{a_0^5}+\frac{90a_1^4a_2a_{12}}{a_0^6}+\frac{90a_1^4a_3a_{11}}{a_0^6}+\frac{90a_1^4a_4a_{10}}{a_0^6}+\frac{90a_1^4a_5a_9}{a_0^6}+\frac{90a_1^4a_6a_8}{a_0^6}+\frac{90a_1a_2^4a_9}{a_0^6}+\frac{90a_1a_3^4a_5}{a_0^6}+\frac{90a_2^4a_3a_7}{a_0^6}+\frac{90a_2^4a_4a_6}{a_0^6}+\frac{90a_2a_3^4a_4}{a_0^6}-\frac{108a_1^5a_2a_{11}}{a_0^7}-\frac{108a_1^5a_3a_{10}}{a_0^7}-\frac{108a_1^5a_4a_9}{a_0^7}-\frac{108a_1^5a_5a_8}{a_0^7}-\frac{108a_1^5a_6a_7}{a_0^7}-\frac{108a_1a_2a_3^5}{a_0^7}-\frac{108a_1a_2^5a_7}{a_0^7}-\frac{108a_2^5a_3a_5}{a_0^7}+\frac{126a_1^6a_2a_{10}}{a_0^8}+\frac{126a_1^6a_3a_9}{a_0^8}+\frac{126a_1^6a_4a_8}{a_0^8}+$$

$$\frac{126a_1^6a_5a_7}{a_0^8}+\frac{126a_1a_2^6a_5}{a_0^8}-\frac{144a_1^7a_2a_9}{a_0^9}-\frac{144a_1^7a_3a_8}{a_0^9}-\frac{144a_1^7a_4a_7}{a_0^9}-\frac{144a_1^7a_5a_6}{a_0^9}-$$
$$\frac{144a_1a_2^7a_3}{a_0^9}+\frac{162a_1^8a_2a_8}{a_0^{10}}+\frac{162a_1^8a_3a_7}{a_0^{10}}+\frac{162a_1^8a_4a_6}{a_0^{10}}-\frac{180a_1^9a_2a_7}{a_0^{11}}-\frac{180a_1^9a_3a_6}{a_0^{11}}-$$
$$\frac{180a_1^9a_4a_5}{a_0^{11}}+\frac{198a_1^{10}a_2a_6}{a_0^{12}}+\frac{198a_1^{10}a_3a_5}{a_0^{12}}-\frac{216a_1^{11}a_2a_5}{a_0^{13}}-\frac{216a_1^{11}a_3a_4}{a_0^{13}}+\frac{234a_1^{12}a_2a_4}{a_0^{14}}-$$
$$\frac{252a_1^{13}a_2a_3}{a_0^{15}}-\frac{108a_1^2a_4a_6^2}{a_0^5}-\frac{108a_1^2a_2^2a_{12}}{a_0^5}-\frac{108a_1^2a_3^2a_{10}}{a_0^5}-\frac{108a_1^2a_4^2a_8}{a_0^5}-\frac{108a_1^2a_5^2a_6}{a_0^5}-$$
$$\frac{108a_1^2a_2a_7^2}{a_0^5}-\frac{108a_2^2a_3^2a_8}{a_0^5}-\frac{108a_2^2a_4^2a_6}{a_0^5}-\frac{108a_2^2a_4a_5^2}{a_0^5}-\frac{108a_2a_3^2a_5^2}{a_0^5}+\frac{180a_1^3a_3a_6^2}{a_0^6}+$$
$$\frac{180a_1^3a_2^2a_{11}}{a_0^6}+\frac{180a_1^3a_3^2a_9}{a_0^6}+\frac{180a_1^3a_4^2a_7}{a_0^6}+\frac{180a_1^2a_2^3a_{10}}{a_0^6}+\frac{180a_1^2a_3^3a_7}{a_0^6}+\frac{180a_1a_3^3a_4^2}{a_0^6}+$$
$$\frac{180a_2^3a_3^2a_6}{a_0^6}+\frac{180a_2^2a_3^3a_5}{a_0^6}-\frac{270a_1^4a_2^2a_{10}}{a_0^7}-\frac{270a_1^4a_3^2a_8}{a_0^7}-\frac{270a_1^4a_4^2a_6}{a_0^7}-\frac{270a_1^4a_4a_5^2}{a_0^7}-$$
$$\frac{270a_1^4a_2a_6^2}{a_0^7}-\frac{270a_1^2a_2^4a_8}{a_0^7}-\frac{270a_1^2a_3^4a_4}{a_0^7}-\frac{270a_2^4a_3^2a_4}{a_0^7}+\frac{378a_1^5a_2^2a_9}{a_0^8}+\frac{378a_1^5a_3^2a_7}{a_0^8}+$$
$$\frac{378a_1^5a_4^2a_5}{a_0^8}+\frac{378a_1^5a_3a_5^2}{a_0^8}+\frac{378a_1^2a_2^5a_6}{a_0^8}-\frac{504a_1^6a_2^2a_8}{a_0^9}-\frac{504a_1^6a_3^2a_6}{a_0^9}-\frac{504a_1^6a_2a_5^2}{a_0^9}-$$
$$\frac{504a_1^2a_2^6a_4}{a_0^9}+\frac{648a_1^7a_2^2a_7}{a_0^{10}}+\frac{648a_1^7a_3^2a_5}{a_0^{10}}+\frac{648a_1^7a_3a_4^2}{a_0^{10}}-\frac{810a_1^8a_2^2a_6}{a_0^{11}}-\frac{810a_1^8a_3^2a_4}{a_0^{11}}-$$
$$\frac{810a_1^8a_2a_4^2}{a_0^{11}}+\frac{990a_1^9a_2^2a_5}{a_0^{12}}-\frac{1188a_1^{10}a_2^2a_4}{a_0^{13}}-\frac{1188a_1^{10}a_2a_3^2}{a_0^{13}}+\frac{1404a_1^{11}a_2^2a_3}{a_0^{14}}-\frac{360a_1^3a_3a_4^3}{a_0^7}-$$
$$\frac{360a_1^3a_2^3a_9}{a_0^7}-\frac{360a_1^3a_3^3a_6}{a_0^7}+\frac{630a_1^4a_2a_4^3}{a_0^8}+\frac{630a_1^4a_2^3a_{n8}}{a_0^8}+\frac{630a_1^4a_3^3a_5}{a_0^8}+\frac{630a_1^3a_2^4a_7}{a_0^8}+$$
$$\frac{630a_1a_2^4a_3^3}{a_0^8}-\frac{1008a_1^5a_2^3a_7}{a_0^9}-\frac{1008a_1^5a_3^3a_4}{a_0^9}-\frac{1008a_1^3a_2^5a_5}{a_0^9}+\frac{1512a_1^6a_2^3a_6}{a_0^{10}}+\frac{1512a_1^3a_2^6a_3}{a_0^{10}}-$$
$$\frac{2160a_1^7a_2^3a_5}{a_0^{11}}-\frac{2160a_1^7a_2a_3^3}{a_0^{11}}+\frac{2970a_1^8a_2^3a_4}{a_0^{12}}-\frac{3960a_1^9a_2^3a_3}{a_0^{13}}-\frac{1260a_1^4a_2a_3^4}{a_0^9}-$$
$$\frac{1260a_1^4a_2^4a_6}{a_0^9}+\frac{2268a_1^5a_2^4a_5}{a_0^{10}}+\frac{2268a_1^4a_2^5a_4}{a_0^{10}}-\frac{3780a_1^6a_2^4a_4}{a_0^{11}}+\frac{5940a_1^7a_2^4a_3}{a_0^{12}}-$$
$$\frac{4536a_1^5a_2^5a_3}{a_0^{11}}+\frac{270a_1^2a_2^2a_6^2}{a_0^6}+\frac{270a_1^2a_3^2a_5^2}{a_0^6}+\frac{270a_2^2a_3^2a_4^2}{a_0^6}-\frac{540a_1^2a_2^2a_4^3}{a_0^7}-\frac{540a_1^2a_2^3a_5^2}{a_0^7}+$$
$$\frac{945a_1^4a_2^2a_5^2}{a_0^8}+\frac{945a_1^4a_3^2a_4^2}{a_0^8}+\frac{945a_1^2a_2^2a_3^4}{a_0^8}+\frac{945a_1^2a_2^4a_4^2}{a_0^8}-\frac{1512a_1^2a_2^5a_3^2}{a_0^9}+\frac{2268a_1^6a_2^2a_4^2}{a_0^{10}}+$$
$$\frac{4455a_1^8a_2^2a_3^2}{a_0^{12}}-\frac{2520a_1^4a_2^3a_4^2}{a_0^9}+\frac{4536a_1^5a_2^2a_3^3}{a_0^{10}}-\frac{7560a_1^6a_2^3a_3^2}{a_0^{11}}+\frac{5670a_1^4a_2^4a_3^2}{a_0^{10}}-$$
$$\frac{3360a_1^3a_2^3a_3^3}{a_0^9}+\frac{108a_1a_2a_3a_{12}}{a_0^4}+\frac{108a_1a_2a_4a_{11}}{a_0^4}+\frac{108a_1a_2a_5a_{10}}{a_0^4}+\frac{108a_1a_2a_6a_9}{a_0^4}+$$
$$\frac{108a_1a_2a_7a_8}{a_0^4}+\frac{108a_1a_3a_4a_{10}}{a_0^4}+\frac{108a_1a_3a_5a_9}{a_n^4}+\frac{108a_1a_3a_6a_8}{a_n^4}+\frac{108a_1a_4a_5a_8}{a_n^4}+$$
$$\frac{108a_1a_4a_6a_7}{a_0^4}+\frac{108a_2a_3a_4a_9}{a_0^4}+\frac{108a_2a_3a_5a_8}{a_0^4}+\frac{108a_2a_3a_6a_7}{a_0^4}+\frac{108a_2a_4a_5a_7}{a_0^4}+$$
$$\frac{108a_3a_4a_5a_6}{a_0^4}-\frac{216a_1^2a_2a_3a_{11}}{a_0^5}-\frac{216a_1^2a_2a_4a_{10}}{a_0^5}-\frac{216a_1^2a_2a_5a_9}{a_0^5}-\frac{216a_1^2a_2a_6a_8}{a_0^5}-$$
$$\frac{216a_1^2a_3a_4a_9}{a_0^5}-\frac{216a_1^2a_3a_5a_8}{a_0^5}-\frac{216a_1^2a_3a_6a_7}{a_0^5}-\frac{216a_1^2a_4a_5a_7}{a_0^5}-\frac{216a_1a_2^2a_3a_{10}}{a_0^5}-$$
$$\frac{216a_1a_2^2a_4a_9}{a_0^5}-\frac{216a_1a_2^2a_5a_8}{a_0^5}-\frac{216a_1a_2^2a_6a_7}{a_0^5}-\frac{216a_1a_2a_3^2a_9}{a_0^5}-\frac{216a_1a_3^2a_4a_7}{a_0^5}-$$

$$\frac{216a_1a_3^2a_5a_6}{a_0^5}-\frac{216a_1a_2a_4^2a_7}{a_0^5}-\frac{216a_1a_3a_4^2a_6}{a_0^5}-\frac{216a_1a_3a_4a_5^2}{a_0^5}-\frac{216a_1a_2a_3a_6^2}{a_0^5}-\frac{216a_2^2a_3a_4a_7}{a_0^5}-\frac{216a_2^2a_3a_{n5}a_6}{a_0^5}-\frac{216a_2a_3^2a_4a_6}{a_0^5}-\frac{216a_2a_3a_4^2a_5}{a_0^5}+\frac{360a_1^3a_2a_3a_{10}}{a_0^6}+\frac{360a_1^3a_2a_4a_9}{a_0^6}+\frac{360a_1^3a_2a_5a_8}{a_0^6}+\frac{360a_1^3a_2a_6a_7}{a_0^6}+\frac{360a_1^3a_3a_4a_8}{a_0^6}+\frac{360a_1^3a_3a_5a_7}{a_n^6}+\frac{360a_1^3a_4a_5a_6}{a_0^6}+\frac{360a_1a_2^3a_3a_8}{a_0^6}+\frac{360a_1a_2^3a_4a_7}{a_0^6}+\frac{360a_1a_2^3a_5a_6}{a_0^6}+\frac{360a_1a_2a_3^3a_6}{a_n^6}+\frac{360a_1a_2a_3a_4^3}{a_0^6}+\frac{360a_2^3a_3a_4a_5}{a_0^6}-\frac{540a_1^4a_2a_3a_9}{a_0^7}-\frac{540a_1^4a_2a_4a_8}{a_0^7}-\frac{540a_1^4a_2a_5a_7}{a_0^7}-\frac{540a_1^4a_3a_4a_7}{a_0^7}-\frac{540a_1^4a_3a_5a_6}{a_0^7}-\frac{540a_1a_2^4a_3a_6}{a_0^7}-\frac{540a_1a_2^4a_4a_5}{a_0^7}+\frac{756a_1^5a_2a_3a_8}{a_0^8}+\frac{756a_1^5a_2a_4a_7}{a_0^8}+\frac{756a_1^5a_2a_5a_6}{a_0^8}+\frac{756a_1^5a_3a_4a_6}{a_0^8}+\frac{756a_1a_2^5a_3a_4}{a_0^8}-\frac{1008a_1^6a_2a_3a_7}{a_0^9}-\frac{1008a_1^6a_2a_4a_6}{a_0^9}-\frac{1008a_1^6a_3a_4a_5}{a_0^9}+\frac{1296a_1^7a_2a_3a_6}{a_0^{10}}+\frac{1296a_1^7a_2a_4a_5}{a_0^{10}}-\frac{1620a_1^8a_2a_3a_5}{a_0^{11}}+\frac{1980a_1^9a_2a_3a_4}{a_0^{12}}+\frac{540a_1^2a_2^2a_3a_9}{a_0^6}+\frac{540a_1^2a_2^2a_4a_8}{a_0^6}+\frac{540a_1^2a_2^2a_5a_7}{a_0^6}+\frac{540a_1^2a_2a_3^2a_8}{a_0^6}+\frac{540a_1^2a_3^2a_4a_6}{a_0^6}+\frac{540a_1^2a_2a_4^2a_6}{a_0^6}+\frac{540a_1^2a_3a_4^2a_5}{a_0^6}+\frac{540a_1^2a_2a_4a_5^2}{a_0^6}+\frac{540a_1a_2^2a_3^2a_7}{a_0^6}+\frac{540a_1a_2^2a_4^2a_5}{a_0^6}+\frac{540a_1a_2^2a_3a_5^2}{a_0^6}-\frac{1080a_1^3a_2^2a_3a_8}{a_0^7}-\frac{1080a_1^3a_2^2a_4a_7}{a_0^7}-\frac{1080a_1^3a_2^2a_5a_6}{a_0^7}-\frac{1080a_1^3a_2a_3^2a_7}{a_0^7}-\frac{1080a_1^3a_3^2a_4a_5}{a_0^7}-\frac{1080a_1^3a_2a_4^2a_5}{a_0^7}-\frac{1080a_1^3a_2a_3a_5^2}{a_0^7}-\frac{1080a_1^2a_2^3a_3a_7}{a_0^7}-\frac{1080a_1^2a_2^3a_4a_6}{a_0^7}-\frac{1080a_1^2a_2a_3^3a_5}{a_0^7}-\frac{1080a_1a_2^3a_3^2a_5}{a_0^7}-\frac{1080a_1a_2^3a_3a_4^2}{a_0^7}-\frac{1080a_1a_2^2a_3^3a_4}{a_0^7}+\frac{1890a_1^4a_2^2a_3a_7}{a_0^8}+\frac{1890a_1^4a_2^2a_4a_6}{a_0^8}+\frac{1890a_1^4a_2a_3^2a_6}{a_0^8}+\frac{1890a_1^2a_2^4a_3a_5}{a_0^8}-\frac{3024a_1^5a_2^2a_3a_6}{a_0^9}-\frac{3024a_1^5a_2^2a_4a_5}{a_0^9}-\frac{3024a_1^5a_2a_3^2a_5}{a_0^9}-\frac{3024a_1^5a_2a_3a_4^2}{a_0^9}+\frac{4536a_1^6a_2^2a_3a_5}{a_0^{10}}+\frac{4536a_1^6a_2a_3^2a_4}{a_0^{10}}-\frac{6480a_1^7a_2^2a_3a_4}{a_0^{11}}+\frac{2520a_1^3a_2^3a_3a_6}{a_0^8}+\frac{2520a_1^3a_2^3a_4a_5}{a_0^8}+\frac{2520a_1^3a_2a_3^3a_4}{a_0^8}-\frac{5040a_1^4a_2^3a_3a_5}{a_0^9}-\frac{5040a_1^3a_2^4a_3a_4}{a_0^9}+\frac{9072a_1^5a_2^3a_3a_4}{a_0^{10}}-\frac{1620a_1^2a_2^2a_3^2a_6}{a_0^7}-\frac{1620a_1^2a_2a_3^2a_4^2}{a_0^7}+\frac{3780a_1^3a_2^2a_3^2a_5}{a_0^8}+\frac{3780a_1^3a_2^2a_3a_4^2}{a_0^8}+\frac{3780a_1^2a_2^3a_3^2a_4}{a_0^8}-\frac{7560a_1^4a_2^2a_3^2a_4}{a_0^9}-\frac{432a_1a_2a_3a_4a_8}{a_0^5}-\frac{432a_1a_2a_3a_5a_7}{a_0^5}-\frac{432a_1a_2a_4a_5a_6}{a_0^5}+\frac{1080a_1^2a_2a_3a_4a_7}{a_0^6}+\frac{1080a_1^2a_2a_3a_5a_6}{a_0^6}+\frac{1080a_1a_2^2a_3a_4a_6}{a_0^6}+\frac{1080a_1a_2a_3^2a_4a_5}{a_0^6}-\frac{1080a_1^3a_2a_3a_4a_6}{a_0^7}+\frac{3780a_1^4a_2a_3a_4a_5}{a_0^8}-\frac{3240a_1^2a_2^2a_3a_4a_5}{a_0^7}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{19}}=-\frac{19a_{19}}{a_0}-\frac{a_1^{19}}{a_0^{19}}+\frac{19a_1a_{18}}{a_0^2}+\frac{19a_2a_{17}}{a_0^2}+\frac{19a_3a_{16}}{a_0^2}+\frac{19a_4a_{15}}{a_0^2}+\frac{19a_5a_{14}}{a_0^2}+\frac{19a_6a_{13}}{a_0^2}+\frac{19a_7a_{12}}{a_0^2}+\frac{19a_8a_{11}}{a_0^2}+\frac{19a_9a_{10}}{a_0^2}-\frac{19a_1^2a_{17}}{a_0^3}-\frac{19a_1a_9^2}{a_0^3}-\frac{19a_3a_8^2}{a_0^3}-\frac{19a_2^2a_{15}}{a_0^3}-\frac{19a_3^2a_{13}}{a_0^3}-\frac{19a_4^2a_{11}}{a_0^3}-\frac{19a_5^2a_9}{a_0^3}-\frac{19a_6^2a_7}{a_0^3}-\frac{19a_5a_7^2}{a_0^3}+$$

$$\frac{19a_1^3a_{16}}{a_0^4}+\frac{19a_1a_6^3}{a_0^4}+\frac{19a_2^3a_{13}}{a_0^4}+\frac{19a_3^3a_{10}}{a_0^4}+\frac{19a_4^3a_7}{a_0^4}+\frac{19a_4a_5^3}{a_0^4}-\frac{19a_1^4a_{15}}{a_0^5}-$$
$$\frac{19a_3a_4^4}{a_0^5}-\frac{19a_2^4a_{11}}{a_0^5}-\frac{19a_3^4a_7}{a_0^5}+\frac{19a_1^5a_{14}}{a_0^6}+\frac{19a_2^5a_9}{a_0^6}+\frac{19a_3^5a_4}{a_0^6}--\frac{19a_1^6a_{13}}{a_0^7}-$$
$$\frac{19a_1a_3^6}{a_0^7}-\frac{19a_2^6a_7}{a_0^7}+\frac{19a_1^7a_{12}}{a_0^8}+\frac{19a_2^7a_5}{a_0^8}-\frac{19a_1^8a_{11}}{a_0^9}-\frac{19a_2^8a_3}{a_0^9}+\frac{19a_1^9a_{10}}{a_0^{10}}+$$
$$\frac{19a_1a_2^9}{a_0^{10}}-\frac{19a_1^{10}a_9}{a_0^{11}}+\frac{19a_1^{11}a_8}{a_0^{12}}-\frac{19a_1^{12}a_7}{a_0^{13}}+\frac{19a_1^{13}a_6}{a_0^{14}}-\frac{19a_1^{14}a_5}{a_0^{15}}+\frac{19a_1^{15}a_4}{a_0^{16}}-$$
$$\frac{19a_1^{16}a_3}{a_0^{17}}+\frac{19a_1^{17}a_2}{a_0^{18}}-\frac{38a_1^3a_8^{\ 2}}{a_0^5}-\frac{38a_3^3a_5^{\ 2}}{a_0^5}-\frac{38a_2^2a_5^{\ 3}}{a_0^5}-\frac{57a_1^5a_7^{\ 2}}{a_0^7}-\frac{57a_2^2a_3^{\ 5}}{a_0^7}-$$
$$\frac{76a_1^7a_6^2}{a_0^9}-\frac{95a_1^9a_5^2}{a_0^{11}}-\frac{114a_1^{11}a_4^2}{a_0^{13}}-\frac{133a_1^{13}a_3^2}{a_0^{15}}-\frac{152a_1^{15}a_2^2}{a_0^{17}}-\frac{95a_1^4a_5^3}{a_0^7}-\frac{95a_1^3a_4^{\ 4}}{a_0^7}+$$
$$\frac{133a_2^5a_3^{\ 3}}{a_0^8}+\frac{228a_1^7a_4^3}{a_0^{10}}-\frac{285a_1^3a_2^8}{a_0^{11}}-\frac{418a_1^{10}a_3^3}{a_0^{13}}+\frac{665a_1^{13}a_2^3}{a_0^{16}}-\frac{266a_1^4a_3^{\ 5}}{a_0^9}-\frac{570a_1^7a_3^4}{a_0^{11}}-$$
$$\frac{1729a_1^{11}a_2^4}{a_0^{15}}+\frac{1254a_1^5a_2^7}{a_0^{12}}+\frac{2717a_1^9a_2^5}{a_0^{14}}-\frac{2508a_1^7a_2^6}{a_0^{13}}-\frac{38a_1a_2a_{16}}{a_0^3}-\frac{38a_1a_3a_{15}}{a_0^3}-$$
$$\frac{38a_1a_4a_{14}}{a_0^3}-\frac{38a_1a_5a_{13}}{a_0^3}-\frac{38a_1a_6a_{12}}{a_0^3}-\frac{38a_1a_7a_{11}}{a_0^3}-\frac{38a_1a_8a_{10}}{a_0^3}-\frac{38a_2a_3a_{14}}{a_0^3}-$$
$$\frac{38a_2a_4a_{13}}{a_0^3}-\frac{38a_2a_5a_{12}}{a_0^3}-\frac{38a_2a_6a_{11}}{a_0^3}-\frac{38a_2a_7a_{10}}{a_0^3}-\frac{38a_2a_8a_9}{a_0^3}-\frac{38a_3a_4a_{12}}{a_0^3}-$$
$$\frac{38a_3a_5a_{11}}{a_0^3}-\frac{38a_3a_6a_{10}}{a_0^3}-\frac{38a_3a_7a_9}{a_0^3}-\frac{38a_4a_5a_{10}}{a_0^3}-\frac{38a_4a_6a_9}{a_0^3}-\frac{38a_4a_7a_8}{a_0^3}-$$
$$\frac{38a_5a_6a_8}{a_0^3}+\frac{57a_1^2a_2a_{15}}{a_0^4}+\frac{57a_1^2a_3a_{14}}{a_0^4}+\frac{57a_1^2a_4a_{13}}{a_0^4}+\frac{57a_1^2a_5a_{12}}{a_0^4}+\frac{57a_1^2a_6a_{11}}{a_0^4}+$$
$$\frac{57a_1^2a_7a_{10}}{a_0^4}+\frac{57a_1^2a_8a_9}{a_0^4}+\frac{57a_1a_2a_8^2}{a_0^4}+\frac{57a_1a_2^2a_{14}}{a_0^4}+\frac{57a_1a_3^2a_{12}}{a_0^4}+\frac{57a_1a_4^2a_{10}}{a_0^4}+$$
$$\frac{57a_1a_5^2a_8}{a_0^4}+\frac{57a_1a_4a_7^2}{a_0^4}+\frac{57a_2^2a_3a_{12}}{a_0^4}+\frac{57a_2^2a_4a_{11}}{a_0^4}+\frac{57a_2^2a_5a_{10}}{a_0^4}+\frac{57a_2^2a_6a_9}{a_0^4}+$$
$$\frac{57a_2^2a_7a_8}{a_0^4}+\frac{57a_2a_3^2a_{11}}{a_0^4}+\frac{57a_3^2a_4a_9}{a_0^4}+\frac{57a_3^2a_5a_8}{a_0^4}+\frac{57a_3^2a_6a_7}{a_0^4}+\frac{57a_2a_4^2a_9}{a_0^4}+$$
$$\frac{57a_3a_4^2a_8}{a_0^4}+\frac{57a_4^2a_5a_6}{a_0^4}+\frac{57a_2a_5^2a_7}{a_0^4}+\frac{57a_3a_5^2a_6}{a_0^4}+\frac{57a_2a_5a_6^2}{a_0^4}+\frac{57a_3a_4a_6^2}{a_0^4}+$$
$$\frac{57a_2a_3a_7^2}{a_0^4}-\frac{76a_1^3a_2a_{14}}{a_0^5}-\frac{76a_1^3a_3a_{13}}{a_0^5}-\frac{76a_1^3a_4a_{12}}{a_0^5}-\frac{76a_1^3a_5a_{11}}{a_0^5}-\frac{76a_1^3a_6a_{10}}{a_0^5}-$$
$$\frac{76a_1^3a_7a_9}{a_0^5}-\frac{76a_1a_2^3a_{12}}{a_0^5}-\frac{76a_1a_3^3a_9}{a_0^5}-\frac{76a_1a_4^3a_6}{a_0^5}-\frac{76a_1a_3a_5^3}{a_0^5}-\frac{76a_2^3a_3a_{10}}{a_0^5}-$$
$$\frac{76a_2^3a_4a_9}{a_0^5}-\frac{76a_2^3a_5a_8}{a_0^5}-\frac{76a_2^3a_6a_7}{a_0^5}-\frac{76a_2a_3^3a_8}{a_0^5}-\frac{76a_3^3a_4a_6}{a_0^5}-\frac{76a_2a_4^3a_5}{a_0^5}+$$

$$\frac{95a_1^4a_2a_{13}}{a_0^6}+\frac{95a_1^4a_3a_{12}}{a_0^6}+\frac{95a_1^4a_4a_{11}}{a_0^6}+\frac{95a_1^4a_5a_{10}}{a_0^6}+\frac{95a_1^4a_6a_9}{a_0^6}+\frac{95a_1^4a_7a_8}{a_0^6}+$$
$$\frac{95a_1a_2a_4^4}{a_0^6}+\frac{95a_1a_2^4a_{10}}{a_0^6}+\frac{95a_1a_3^4a_6}{a_0^6}+\frac{95a_2^4a_3a_8}{a_0^6}+\frac{95a_2^4a_4a_7}{a_0^6}+\frac{95a_2^4a_5a_6}{a_0^6}+$$
$$\frac{95a_2a_3^4a_5}{a_0^6}-\frac{114a_1^5a_2a_{12}}{a_0^7}-\frac{114a_1^5a_3a_{11}}{a_0^7}-\frac{114a_1^5a_4a_{10}}{a_n^7}-\frac{114a_1^5a_5a_9}{a_n^7}-$$
$$\frac{114a_1^5a_6a_8}{a_0^7}-\frac{114a_1a_2^5a_8}{a_0^7}-\frac{114a_2^5a_3a_6}{a_0^7}-\frac{114a_2^5a_4a_5}{a_0^7}+\frac{133a_1^6a_2a_{11}}{a_0^8}+$$
$$\frac{133a_1^6a_3a_{10}}{a_0^8}+\frac{133a_1^6a_4a_9}{a_0^8}+\frac{133a_1^6a_5a_8}{a_0^8}+\frac{133a_1^6a_6a_7}{a_0^8}+\frac{133a_1a_2^6a_6}{a_0^8}+$$
$$\frac{133a_2^6a_3a_4}{a_0^8}-\frac{152a_1^7a_2a_{10}}{a_0^9}-\frac{152a_1^7a_3a_9}{a_0^9}-\frac{152a_1^7a_4a_8}{a_0^9}-\frac{152a_1^7a_5a_7}{a_0^9}-$$
$$\frac{152a_1a_2^7a_4}{a_0^9}+\frac{171a_1^8a_2a_9}{a_0^{10}}+\frac{171a_1^8a_3a_8}{a_0^{10}}+\frac{171a_1^8a_4a_7}{a_0^{10}}+\frac{171a_1^8a_5a_6}{a_0^{10}}-\frac{190a_1^9a_2a_8}{a_0^{11}}-$$
$$\frac{190a_1^9a_3a_7}{a_0^{11}}-\frac{190a_1^9a_4a_6}{a_0^{11}}+\frac{209a_1^{10}a_2a_7}{a_0^{12}}+\frac{209a_1^{10}a_3a_6}{a_0^{12}}+\frac{209a_1^{10}a_4a_5}{a_0^{12}}-$$
$$\frac{228a_1^{11}a_2a_6}{a_0^{13}}-\frac{228a_1^{11}a_3a_5}{a_0^{13}}+\frac{247a_1^{12}a_2a_5}{a_0^{14}}+\frac{247a_1^{12}a_3a_4}{a_0^{14}}-\frac{266a_1^{13}a_2a_4}{a_0^{15}}+$$
$$\frac{285a_1^{14}a_2a_3}{a_0^{16}}-\frac{114a_1^2a_5a_6^2}{a_0^5}-\frac{114a_1^2a_2^2a_{13}}{a_0^5}-\frac{114a_1^2a_3^2a_{11}}{a_0^5}-\frac{114a_1^2a_4^2a_9}{a_n^5}-$$
$$\frac{114a_1^2a_5^2a_7}{a_0^5}-\frac{114a_1^2a_3a_7^2}{a_0^5}-\frac{114a_1a_2^2a_7^2}{a_0^5}-\frac{114a_1a_3^2a_6^2}{a_0^5}-\frac{114a_1a_4^2a_5^2}{a_0^5}-\frac{114a_2^2a_3^2a_9}{a_0^5}-$$
$$\frac{114a_2^2a_4^2a_7}{a_0^5}-\frac{114a_2^2a_3a_6^2}{a_0^5}-\frac{114a_3^2a_4^2a_5}{a_0^5}+\frac{190a_1^3a_4a_6^2}{a_0^6}+\frac{190a_1^3a_2^2a_{12}}{a_0^6}+$$
$$\frac{190a_1^3a_3^2a_{10}}{a_0^6}+\frac{190a_1^3a_4^2a_8}{a_0^6}+\frac{190a_1^3a_5^2a_6}{a_0^6}+\frac{190a_1^3a_2a_7^2}{a_0^6}+\frac{190a_1^2a_2^3a_{11}}{a_0^6}+$$
$$\frac{190a_1^2a_3^3a_8}{a_0^6}+\frac{190a_1^2a_4^3a_5}{a_0^6}+\frac{190a_1^2a_2a_5^3}{a_0^6}+\frac{190a_1a_2^3a_6^2}{a_0^6}+\frac{190a_1a_3^2a_4^3}{a_0^6}+\frac{190a_2^3a_3^2a_7}{a_0^6}+$$
$$\frac{190a_2^3a_4^2a_5}{a_0^6}+\frac{190a_2^2a_3^3a_6}{a_0^6}+\frac{190a_2^2a_3a_4^3}{a_0^6}+\frac{190a_2^3a_3a_5^2}{a_0^6}+\frac{190a_2a_3^3a_4^2}{a_0^6}-\frac{285a_1^4a_3a_6^2}{a_0^7}-$$
$$\frac{285a_1^4a_2^2a_{11}}{a_0^7}-\frac{285a_1^4a_3^2a_9}{a_0^7}-\frac{285a_1^4a_4^2a_7}{a_0^7}-\frac{285a_1^2a_z^4a_9}{a_0^7}-\frac{285a_1^2a_3^4a_5}{a_0^7}-$$
$$\frac{285a_1a_2^4a_5^2}{a_0^7}-\frac{285a_2^4a_3^2a_5}{a_0^7}-\frac{285a_2^4a_3a_4^2}{a_0^7}+\frac{399a_1^5a_2^2a_{10}}{a_0^8}+\frac{399a_1^5a_3^2a_8}{a_0^8}+$$
$$\frac{399a_1^5a_4^2a_6}{a_0^8}+\frac{399a_1^5a_4a_5^2}{a_0^8}+\frac{399a_1^5a_2a_6^2}{a_0^8}+\frac{399a_1^2a_2a_3^5}{a_0^8}+\frac{399a_1^2a_2^5a_7}{a_0^8}+\frac{399a_1a_2^5a_4^2}{a_0^8}-$$

$$\frac{532a_1^6a_{02}^2a_9}{a_0^9}-\frac{532a_1^6a_3^2a_7}{a_0^9}-\frac{532a_1^6a_4^2a_5}{a_0^9}-\frac{532a_1^6a_3a_5^2}{a_0^9}-\frac{532a_1^2a_2^6a_5}{a_0^9}-$$
$$\frac{532a_1a_2^6a_3^{\ 2}}{a_0^9}+\frac{684a_1^7a_2^2a_8}{a_0^{10}}+\frac{684a_1^7a_3^{\ 2}a_6}{a_0^{10}}+\frac{684a_1^7a_2a_5^2}{a_0^{10}}+\frac{684a_1^2a_2^7a_3}{a_0^{10}}-\frac{855a_1^8a_2^2a_7}{a_0^{11}}-$$
$$\frac{855a_1^8a_3^2a_5}{a_0^{11}}-\frac{855a_1^8a_3a_4^2}{a_0^{11}}+\frac{1045a_1^9a_2^2a_6}{a_0^{12}}+\frac{1045a_1^9a_3^2a_4}{a_0^{12}}+\frac{1045a_1^9a_2a_4^2}{a_0^{12}}-$$
$$\frac{1254a_1^{10}a_2^2a_5}{a_0^{13}}+\frac{1482a_1^{11}a_2^2a_4}{a_0^{14}}+\frac{1482a_1^{11}a_2a_3^2}{a_0^{14}}-\frac{1729a_1^{12}a_2^2a_3}{a_0^{15}}-\frac{380a_1^3a_2^3a_{10}}{a_0^7}-$$
$$\frac{380a_1^3a_3^3a_7}{a_0^7}-\frac{380a_1a_2^3a_4^3}{a_0^7}-\frac{380a_2^3a_3^3a_4}{a_0^7}+\frac{665a_1^4a_3a_4^3}{a_0^8}+\frac{665a_1^4a_2^3a_9}{a_0^8}+\frac{665a_1^4a_3^3a_6}{a_0^8}+$$
$$\frac{665a_1^3a_2^4a_8}{a_0^8}+\frac{665a_1^3a_3^4a_4}{a_0^8}+\frac{665a_1a_2^3a_3^4}{a_0^8}-\frac{1064a_1^5a_2a_4^3}{a_0^9}-\frac{1064a_1^5a_2^3a_8}{a_0^9}-\frac{1064a_1^5a_3^3a_5}{a_0^9}-$$
$$\frac{1064a_1^3a_2^5a_6}{a_0^9}+\frac{1596a_1^6a_2^3a_7}{a_0^{10}}+\frac{1596a_1^6a_3^3a_4}{a_0^{10}}+\frac{1596a_1^3a_2^6a_4}{a_0^{10}}-\frac{2280a_1^7a_2^3a_6}{a_0^{11}}+$$
$$\frac{3135a_1^8a_2^3a_5}{a_0^{12}}+\frac{3135a_1^8a_2a_3^3}{a_0^{12}}-\frac{4180a_1^9a_2^3a_4}{a_0^{13}}+\frac{5434a_1^{10}a_2^3a_3}{a_0^{14}}-\frac{1330a_1^4a_2^4a_7}{a_0^9}+$$
$$\frac{2394a_1^5a_2a_3^4}{a_0^{10}}+\frac{2394a_1^5a_2^4a_6}{a_0^{10}}-\frac{3990a_1^6a_2^4a_5}{a_0^{11}}-\frac{3990a_1^4a_2^6a_3}{a_0^{11}}+\frac{6270a_1^7a_2^4a_4}{a_0^{12}}-$$
$$\frac{9405a_1^8a_2^4a_3}{a_0^{13}}+\frac{2394a_1^4a_2^5a_5}{a_0^{10}}-\frac{4788a_1^5a_2^5a_4}{a_0^{11}}+\frac{8778a_1^6a_2^5a_3}{a_0^{12}}-\frac{570a_1^3a_2^2a_6^2}{a_0^7}-\frac{570a_1^3a_3^2a_5^2}{a_0^7}-$$
$$\frac{570a_1^2a_3^3a_4^2}{a_0^7}-\frac{1596a_1^5a_2^2a_5^2}{a_0^9}-\frac{1596a_1^5a_3^2a_4^2}{a_0^9}-\frac{3420a_1^7a_2^2a_4^2}{a_0^{11}}-\frac{6270a_1^9a_2^2a_3^2}{a_0^{13}}+\frac{1330a_1^3a_2^2a_4^3}{a_0^8}+$$
$$\frac{1330a_1^3a_2^3a_5^2}{a_0^8}-\frac{2660a_1^3a_2^4a_4^2}{a_0^9}-\frac{2660a_1^3a_2^2a_3^4}{a_0^9}-\frac{2660a_1^2a_2^4a_3^3}{a_0^9}+\frac{4788a_1^5a_2^3a_4^2}{a_0^{10}}+$$
$$\frac{4788a_1^3a_2^5a_3^2}{a_0^{10}}-\frac{7980a_1^6a_2^2a_3^3}{a_0^{11}}+\frac{12540a_1^7a_2^3a_3^2}{a_0^{12}}-\frac{11970a_1^5a_2^4a_3^2}{a_0^{11}}+\frac{7980a_1^4a_2^3a_3^3}{a_0^{10}}+$$
$$\frac{114a_1a_2a_3a_{13}}{a_0^4}+\frac{114a_1a_2a_4a_{12}}{a_0^4}+\frac{114a_1a_2a_5a_{11}}{a_0^4}+\frac{114a_1a_2a_6a_{10}}{a_0^4}+\frac{114a_1a_2a_7a_9}{a_0^4}+$$
$$\frac{114a_1a_3a_4a_{11}}{a_0^4}+\frac{114a_1a_3a_5a_{10}}{a_0^4}+\frac{114a_1a_3a_6a_9}{a_0^4}+\frac{114a_1a_3a_7a_8}{a_0^4}+\frac{114a_1a_4a_5a_9}{a_0^4}+$$
$$\frac{114a_1a_4a_6a_8}{a_0^4}+\frac{114a_1a_5a_6a_7}{a_0^4}+\frac{114a_2a_3a_4a_{10}}{a_0^4}+\frac{114a_2a_3a_5a_9}{a_0^4}+\frac{114a_2a_3a_6a_8}{a_0^4}+$$
$$\frac{114a_2a_4a_5a_8}{a_0^4}+\frac{114a_2a_4a_6a_7}{a_0^4}+\frac{114a_3a_4a_5a_7}{a_0^4}-\frac{228a_1^2a_2a_3a_{12}}{a_0^5}-\frac{228a_1^2a_2a_4a_{11}}{a_0^5}-$$
$$\frac{228a_1^2a_2a_5a_{10}}{a_0^5}-\frac{228a_1^2a_2a_6a_9}{a_0^5}-\frac{228a_1^2a_2a_7a_8}{a_0^5}-\frac{228a_1^2a_3a_4a_{10}}{a_0^5}-\frac{228a_1^2a_3a_5a_9}{a_0^5}-$$
$$\frac{228a_1^2a_3a_6a_8}{a_0^5}-\frac{228a_1^2a_4a_5a_8}{a_0^5}-\frac{228a_1^2a_4a_6a_7}{a_0^5}-\frac{228a_1a_2^2a_3a_{11}}{a_0^5}-\frac{228a_1a_2^2a_4a_{10}}{a_0^5}-$$
$$\frac{228a_1a_2^2a_5a_9}{a_0^5}-\frac{228a_1a_2^2a_6a_8}{a_0^5}-\frac{228a_1a_2a_3^2a_{10}}{a_0^5}-\frac{228a_1a_3^2a_4a_8}{a_0^5}-\frac{228a_1a_3^2a_5a_7}{a_0^5}-$$
$$\frac{228a_1a_2a_4^2a_8}{a_0^5}-\frac{228a_1a_3a_4^2a_7}{a_0^5}-\frac{228a_1a_2a_5^2a_6}{a_0^5}-\frac{228a_1a_2a_4a_6^2}{a_0^5}-\frac{228a_2^2a_3a_4a_8}{a_0^5}-$$
$$\frac{228a_2^2a_3a_5a_7}{a_0^5}-\frac{228a_2^2a_4a_5a_6}{a_0^5}-\frac{228a_2a_3^2a_4a_7}{a_0^5}-\frac{228a_2a_3^2a_5a_6}{a_0^5}-\frac{228a_2a_3a_4^2a_6}{a_0^5}-$$
$$\frac{228a_2a_3a_4a_5^2}{a_0^5}+\frac{380a_1^3a_2a_3a_{11}}{a_0^6}+\frac{380a_1^3a_2a_4a_{10}}{a_0^6}+\frac{380a_1^3a_2a_5a_9}{a_0^6}+\frac{380a_1^3a_2a_6a_8}{a_0^6}+$$

$$\frac{380a_1^3a_3a_4a_9}{a_0^6}+\frac{380a_1^3a_3a_5a_8}{a_0^6}+\frac{380a_1^3a_3a_6a_7}{a_0^6}+\frac{380a_1^3a_4a_5a_{n-7}}{a_0^6}+\frac{380a_1a_2^3a_3a_9}{a_0^6}+$$
$$\frac{380a_1a_2^3a_4a_8}{a_0^6}+\frac{380a_1a_2^3a_5a_7}{a_0^6}+\frac{380a_1a_2a_3^3a_7}{a_0^6}+\frac{380a_1a_3^3a_4a_5}{a_0^6}+\frac{380a_2^3a_3a_4a_6}{a_0^6}-$$
$$\frac{570a_1^4a_2a_3a_{10}}{a_0^7}-\frac{570a_1^4a_2a_4a_9}{a_0^7}-\frac{570a_1^4a_2a_5a_8}{a_0^7}-\frac{570a_1^4a_2a_6a_7}{a_0^7}-\frac{570a_1^4a_3a_4a_8}{a_0^7}-$$
$$\frac{570a_1^4a_3a_5a_7}{a_0^7}-\frac{570a_1^4a_4a_5a_6}{a_0^7}-\frac{570a_1a_2^4a_3a_7}{a_0^7}-\frac{570a_1a_2^4a_4a_6}{a_0^7}-\frac{570a_1a_2a_3^4a_4}{a_0^7}+$$
$$\frac{798a_1^5a_2a_3a_9}{a_0^8}+\frac{798a_1^5a_2a_4a_8}{a_0^8}+\frac{798a_1^5a_2a_5a_7}{a_0^8}+\frac{798a_1^5a_3a_4a_7}{a_0^8}+\frac{798a_1^5a_3a_5a_6}{a_0^8}+$$
$$\frac{798a_1a_2^5a_3a_5}{a_0^8}-\frac{1064a_1^6a_2a_3a_8}{a_0^9}-\frac{1064a_1^6a_2a_4a_7}{a_0^9}-\frac{1064a_1^6a_2a_5a_6}{a_0^9}-\frac{1064a_1^6a_3a_4a_6}{a_0^9}+$$
$$\frac{1368a_1^7a_2a_3a_7}{a_0^{10}}+\frac{1368a_1^7a_2a_4a_6}{a_0^{10}}+\frac{1368a_1^7a_3a_4a_5}{a_0^{10}}-\frac{1710a_1^8a_2a_3a_6}{a_0^{11}}-\frac{1710a_1^8a_2a_4a_5}{a_0^{11}}+$$
$$\frac{2090a_1^9a_2a_3a_{n5}}{a_0^{12}}-\frac{2508a_1^{10}a_2a_3a_4}{a_0^{13}}+\frac{570a_1^2a_2^2a_3a_{10}}{a_0^6}+\frac{570a_1^2a_2^2a_4a_9}{a_0^6}+\frac{570a_1^2a_2^2a_5a_8}{a_0^6}+$$
$$\frac{570a_1^2a_2^2a_6a_7}{a_0^6}+\frac{570a_1^2a_2a_3^2a_9}{a_0^6}+\frac{570a_1^2a_3^2a_4a_7}{a_0^6}+\frac{570a_1^2a_3^2a_5a_6}{a_0^6}+\frac{570a_1^2a_2a_4^2a_7}{a_0^6}+$$
$$\frac{570a_1^2a_3a_4^2a_6}{a_0^6}+\frac{570a_1^2a_3a_4a_5^2}{a_0^6}+\frac{570a_1^2a_2a_3a_6^2}{a_0^6}+\frac{570a_1a_2^2a_3^2a_8}{a_0^6}+\frac{570a_1a_2^2a_4^2a_6}{a_0^6}+$$
$$\frac{570a_1a_2^2a_4a_5^2}{a_0^6}+\frac{570a_1a_2a_3^2a_5^2}{a_0^6}+\frac{570a_2^2a_3^2a_4a_5}{a_0^6}-\frac{1140a_1^3a_2^2a_3a_9}{a_0^7}-\frac{1140a_1^3a_2^2a_4a_8}{a_0^7}-$$
$$\frac{1140a_1^3a_2^2a_5a_7}{a_0^7}-\frac{1140a_1^3a_2a_3^2a_8}{a_0^7}-\frac{1140a_1^3a_3^2a_4a_6}{a_0^7}-\frac{1140a_1^3a_2a_4^2a_6}{a_0^7}-\frac{1140a_1^3a_3a_4^2a_5}{a_0^7}-$$
$$\frac{1140a_1^3a_2a_4a_5^2}{a_0^7}-\frac{1140a_1^2a_2^3a_3a_8}{a_0^7}-\frac{1140a_1^2a_2^3a_4a_7}{a_0^7}-\frac{1140a_1^2a_2^3a_5a_6}{a_0^7}-\frac{1140a_1^2a_2a_3^3a_6}{a_0^7}-$$
$$\frac{1140a_1^2a_2a_3a_4^3}{a_0^7}-\frac{1140a_1a_2^3a_3^2a_6}{a_0^7}-\frac{1140a_1a_2^2a_3^3a_5}{a_0^7}+\frac{1995a_1^4a_2^2a_3a_8}{a_0^7}+\frac{1995a_1^4a_2^2a_4a_7}{a_0^8}+$$
$$\frac{1995a_1^4a_2^2a_5a_6}{a_0^8}+\frac{1995a_1^4a_2a_3^2a_7}{a_0^8}+\frac{1995a_1^4a_3^2a_4a_5}{a_0^8}+\frac{1995a_1^4a_2a_4^2a_5}{a_0^8}+\frac{1995a_1^4a_2a_3a_5^2}{a_0^8}+$$
$$\frac{1995a_1^2a_2^4a_3a_6}{a_0^8}+\frac{1995a_1^2a_2^4a_4a_5}{a_0^8}+\frac{1995a_1a_2^4a_3^2a_4}{a_0^8}-\frac{3192a_1^5a_2^2a_3a_7}{a_0^9}-\frac{3192a_1^5a_2^2a_4a_6}{a_0^9}-$$
$$\frac{3192a_1^5a_2a_3^2a_6}{a_0^9}-\frac{3192a_1^2a_2^5a_3a_4}{a_0^9}+\frac{4788a_1^6a_2^2a_3a_6}{a_0^{10}}+\frac{4788a_1^6a_2^2a_4a_5}{a_0^{10}}+\frac{4788a_1^6a_2a_3^2a_5}{a_0^{10}}+$$
$$\frac{4788a_1^6a_2a_3a_4^2}{a_0^{10}}-\frac{6840a_1^7a_2^2a_3a_5}{a_0^{11}}-\frac{6840a_1^7a_2a_3^2a_4}{a_0^{11}}+\frac{9405a_1^8a_2^2a_3a_4}{a_0^{12}}+\frac{2660a_1^3a_2^3a_3a_7}{a_0^8}+$$
$$\frac{2660a_1^3a_2^3a_4a_6}{a_0^8}+\frac{2660a_1^3a_2a_3^3a_5}{a_0^8}-\frac{5320a_1^4a_2^3a_3a_6}{a_0^9}-\frac{5320a_1^4a_2^3a_4a_5}{a_0^9}-\frac{5320a_1^4a_2a_3^3a_4}{a_0^9}-$$
$$\frac{5320a_1^3a_2^4a_3a_5}{a_0^9}+\frac{9576a_1^5a_2^3a_3a_5}{a_0^{10}}-\frac{15960a_1^6a_2^3a_3a_4}{a_0^{11}}+\frac{11970a_1^4a_2^4a_3a_4}{a_0^{10}}-\frac{1710a_1^2a_2^2a_3^2a_7}{a_0^7}-$$
$$\frac{1710a_1^2a_2^2a_4^2a_5}{a_0^7}-\frac{1710a_1^2a_2^2a_3a_5^2}{a_0^7}-\frac{1710a_1a_2^2a_3^2a_4^2}{a_0^7}+\frac{3990a_1^3a_2^2a_3^2a_6}{a_0^8}+\frac{3990a_1^3a_2a_3^2a_4^2}{a_0^8}+$$
$$\frac{3990a_1^2a_2^3a_3^2a_5}{a_0^8}+\frac{3990a_1^2a_2^3a_3a_4^2}{a_0^8}+\frac{3990a_1^2a_2^2a_3^3a_4}{a_0^8}-\frac{7980a_1^4a_2^2a_3^2a_5}{a_0^9}-\frac{7980a_1^4a_2^2a_3a_4^2}{a_0^9}-$$
$$\frac{10640a_1^3a_2^3a_3^2a_4}{a_0^9}+\frac{14364a_1^5a_2^2a_3^2a_4}{a_0^{10}}-\frac{456a_1a_2a_3a_4a_9}{a_0^5}-\frac{456a_1a_2a_3a_5a_8}{a_0^5}-$$
$$\frac{456a_1a_2a_3a_6a_7}{a_0^5}-\frac{456a_1a_2a_4a_5a_7}{a_0^5}-\frac{456a_1a_3a_4a_5a_6}{a_0^5}+\frac{1140a_1^2a_2a_3a_4a_8}{a_0^6}+$$

$$\frac{1140a_1^2a_2a_3a_5a_7}{a_0^6}+\frac{1140a_1^2a_2a_4a_5a_6}{a_0^6}+\frac{1140a_1a_2^2a_3a_4a_7}{a_0^6}+\frac{1140a_1a_2^2a_3a_5a_6}{a_0^6}+\frac{1140a_1a_2a_3^2a_4a_6}{a_0^6}+\frac{1140a_1a_2a_3a_4^2a_5}{a_0^6}-\frac{2280a_1^3a_2a_3a_4a_7}{a_n^7}-\frac{2280a_1^3a_2a_3a_5a_6}{a_0^7}-\frac{2280a_1a_2^3a_3a_4a_5}{a_0^7}+\frac{3990a_1^4a_2a_3a_4a_6}{a_0^8}-\frac{6384a_1^5a_2a_3a_4a_5}{a_0^9}-\frac{3420a_1^2a_2^2a_3a_4a_6}{a_0^7}-\frac{3420a_1^2a_2a_3^2a_4a_5}{a_0^7}+\frac{7980a_1^3a_2^2a_3a_4a_5}{a_0^8}$$

$$\sum_{k=1}^{n}\frac{1}{z_k^{20}}=-\frac{20a_{20}}{a_0}+\frac{10a_{10}^2}{a_0^2}+\frac{5a_5^4}{a_0^4}-\frac{5a_4^5}{a_0^5}+\frac{2a_2^{10}}{a_0^{10}}+\frac{a_1^{20}}{a_0^{20}}+\frac{20a_1a_{19}}{a_0^2}+\frac{20a_2a_{18}}{a_0^2}+\frac{20a_3a_{17}}{a_0^2}+\frac{20a_4a_{16}}{a_0^2}+\frac{20a_5a_{15}}{a_0^2}+\frac{20a_6a_{14}}{a_0^2}+\frac{20a_7a_{13}}{a_0^2}+\frac{20a_8a_{12}}{a_0^2}+\frac{20a_9a_{11}}{a_0^2}-\frac{20a_1^2a_{18}}{a_0^3}-\frac{20a_4a_8^2}{a_0^3}-\frac{20a_2^2a_{16}}{a_0^3}-\frac{20a_3^2a_{14}}{a_0^3}-\frac{20a_4^2a_{12}}{a_0^3}-\frac{20a_5^2a_{10}}{a_0^3}-\frac{20a_6^2a_8}{a_0^3}-\frac{20a_6a_7^2}{a_0^3}-\frac{20a_2a_9^2}{a_0^3}+\frac{20a_1^3a_{17}}{a_0^4}+\frac{20a_2^3a_{14}}{a_0^4}+\frac{20a_3^3a_{11}}{a_0^4}+\frac{20a_4^3a_8}{a_0^4}+\frac{20a_2a_6^3}{a_0^4}-\frac{20a_1^4a_{16}}{a_0^5}-\frac{20a_2^4a_{12}}{a_0^5}-\frac{20a_3^4a_8}{a_0^5}+\frac{20a_1^5a_{15}}{a_0^6}+\frac{20a_2^5a_{10}}{a_0^6}+\frac{20a_3^5a_5}{a_0^6}-\frac{20a_1^6a_{14}}{a_0^7}-\frac{20a_2^6a_8}{a_0^7}-\frac{20a_2a_3^6}{a_0^7}+\frac{20a_1^7a_{13}}{a_0^8}+\frac{20a_2^7a_6}{a_0^8}-\frac{20a_1^8a_{12}}{a_0^9}-\frac{20a_2^8a_4}{a_0^9}+\frac{20a_1^9a_{11}}{a_0^{10}}-\frac{20a_1^{10}a_{10}}{a_0^{11}}+\frac{20a_1^{11}a_9}{a_0^{12}}-\frac{20a_1^{12}a_8}{a_0^{13}}+\frac{20a_1^{13}a_7}{a_0^{14}}-\frac{20a_1^{14}a_6}{a_0^{15}}+\frac{20a_1^{15}a_5}{a_0^{16}}-\frac{20a_1^{16}a_4}{a_0^{17}}+\frac{20a_1^{17}a_3}{a_0^{18}}-\frac{20a_1^{18}a_2}{a_0^{19}}+\frac{30a_1^2a_9^2}{a_0^4}+\frac{30a_2^2a_8^2}{a_0^4}+\frac{30a_3^2a_7^2}{a_0^4}+\frac{30a_4^2a_6^2}{a_0^4}-\frac{40a_1^2a_6^3}{a_0^5}-\frac{40a_2^3a_7^2}{a_0^5}+\frac{50a_1^4a_8^2}{a_0^6}+\frac{50a_2^4a_6^2}{a_0^6}+\frac{50a_3^4a_4^2}{a_0^6}+\frac{50a_2^2a_4^4}{a_0^6}-\frac{60a_2^5a_5^2}{a_0^7}+\frac{70a_1^6a_7^2}{a_0^8}+\frac{70a_1^2a_3^6}{a_0^8}+\frac{70a_2^6a_4^2}{a_0^8}-\frac{80a_2^7a_3^2}{a_0^9}+\frac{90a_1^8a_6^2}{a_0^{10}}-\frac{100a_1^2a_2^9}{a_0^{11}}+\frac{110a_1^{10}a_5^2}{a_0^{12}}+\frac{130a_1^{12}a_4^2}{a_0^{14}}+\frac{150a_1^{14}a_3^2}{a_0^{16}}+\frac{170a_1^{16}a_2^2}{a_0^{18}}-\frac{100a_2^4a_4^3}{a_0^7}+\frac{140a_1^5a_5^3}{a_0^8}-\frac{300a_1^8a_4^3}{a_0^{11}}+\frac{520a_1^{11}a_3^3}{0}-\frac{800a_1^{14}a_2^3}{a_0^{17}}+\frac{175a_1^4a_4^4}{a_0^8}+\frac{175a_2^4a_3^4}{a_0^8}+\frac{825a_1^8a_3^4}{a_0^{12}}+\frac{825a_1^4a_2^8}{a_0^{12}}+\frac{2275a_1^{12}a_2^4}{a_{0n}^{16}}+\frac{504a_1^5a_3^5}{a_0^{10}}-\frac{4004a_1^{10}a_2^5}{a_0^{15}}-\frac{2640a_1^6a_2^7}{a_0^{13}}+\frac{4290a_1^8a_2^6}{a_0^{14}}-\frac{40a_1a_2a_{17}}{a_0^3}-\frac{40a_1a_3a_{16}}{a_0^3}-\frac{40a_1a_4a_{15}}{a_0^3}-\frac{40a_1a_{n-5}a_{14}}{a_0^3}-\frac{40a_1a_6a_{13}}{a_0^3}-\frac{40a_1a_7a_{12}}{a_0^3}-\frac{40a_1a_8a_{11}}{a_0^3}-\frac{40a_1a_9a_{10}}{a_0^3}-\frac{40a_2a_3a_{15}}{a_0^3}-\frac{40a_2a_4a_{14}}{a_0^3}-\frac{40a_2a_5a_{13}}{a_0^3}-\frac{40a_2a_6a_{12}}{a_0^3}-\frac{40a_2a_7a_{11}}{a_0^3}-\frac{40a_2a_8a_{10}}{a_0^3}-\frac{40a_3a_4a_{13}}{a_0^3}-\frac{40a_3a_5a_{12}}{a_0^3}-\frac{40a_3a_6a_{11}}{a_0^3}-\frac{40a_3a_7a_{10}}{a_0^3}-\frac{40a_3a_8a_9}{a_0^3}-\frac{40a_4a_5a_{11}}{a_0^3}-\frac{40a_4a_6a_{10}}{a_0^3}-\frac{40a_4a_7a_9}{a_0^3}-\frac{40a_5a_6a_9}{a_0^3}-\frac{40a_5a_7a_8}{a_0^3}+\frac{60a_1^2a_2a_{16}}{a_0^4}+\frac{60a_1^2a_3a_{15}}{a_0^4}+\frac{60a_1^2a_4a_{14}}{a_0^4}+\frac{60a_1^2a_5a_{13}}{a_0^4}+\frac{60a_1^2a_6a_{12}}{a_0^4}+\frac{60a_1^2a_7a_{11}}{a_0^4}+\frac{60a_1^2a_8a_{10}}{a_0^4}+\frac{60a_1a_3a_8^2}{a_0^4}+\frac{60a_1a_2^2a_{15}}{a_0^4}+\frac{60a_1a_3^2a_{13}}{a_0^4}+\frac{60a_1a_4^2a_{11}}{a_0^4}+\frac{60a_1a_5^2a_9}{a_0^4}+\frac{60a_1a_6^2a_7}{a_0^4}+\frac{60a_1a_5a_7^2}{a_0^4}+\frac{60a_2^2a_3a_{13}}{a_0^4}+\frac{60a_2^2a_4a_{12}}{a_0^4}+\frac{60a_2^2a_5a_{11}}{a_0^4}+\frac{60a_2^2a_6a_{10}}{a_0^4}+\frac{60a_2^2a_7a_9}{a_0^4}+\frac{60a_2a_3^2a_{12}}{a_0^4}+\frac{60a_3^2a_4a_{10}}{a_0^4}+\frac{60a_3^2a_5a_9}{a_0^4}+\frac{60a_3^2a_6a_8}{a_0^4}+\frac{60a_2a_4^2a_{10}}{a_0^4}+\frac{60a_3a_4^2a_9}{a_0^4}+\frac{60a_4^2a_5a_7}{a_0^4}+\frac{60a_2a_5^2a_8}{a_0^4}+\frac{60a_3a_5^2a_7}{a_0^4}+\frac{60a_4a_5^2a_6}{a_0^4}+$$

$$\frac{60a_3a_5a_6^2}{a_0^4}+\frac{60a_2a_4a_7^2}{a_0^4}-\frac{80a_1^3a_2a_{15}}{a_0^5}-\frac{80a_1^3a_3a_{14}}{a_0^5}-\frac{80a_1^3a_4a_{13}}{a_0^5}-\frac{80a_1^3a_5a_{12}}{a_0^5}-$$
$$\frac{80a_1^3a_6a_{11}}{a_0^5}-\frac{80a_1^3a_7a_{10}}{a_0^5}-\frac{80a_1^3a_8a_9}{a_0^5}-\frac{80a_1a_2^3a_{13}}{a_0^5}-\frac{80a_1a_3^3a_{10}}{a_0^5}-\frac{80a_1a_4^3a_7}{a_0^5}-$$
$$\frac{80a_1a_4a_5^3}{a_0^5}-\frac{80a_2^3a_3a_{11}}{a_0^5}-\frac{80a_2^3a_4a_{10}}{a_0^5}-\frac{80a_2^3a_5a_9}{a_0^5}-\frac{80a_2^3a_6a_8}{a_0^5}-\frac{80a_2a_3^3a_9}{a_0^5}-$$
$$\frac{80a_3^3a_4a_7}{a_0^5}-\frac{80a_3^3a_5a_6}{a_0^5}-\frac{80a_2a_4^3a_6}{a_0^5}-\frac{80a_3a_4^3a_5}{a_0^5}-\frac{80a_2a_3a_5^3}{a_0^5}+\frac{100a_1^4a_2a_{14}}{a_0^6}+$$
$$\frac{100a_1^4a_3a_{13}}{a_0^6}+\frac{100a_1^4a_4a_{12}}{a_0^6}+\frac{100a_1^4a_5a_{11}}{a_0^6}+\frac{100a_1^4a_6a_{10}}{a_0^6}+\frac{100a_1^4a_7a_9}{a_0^6}+\frac{100a_1a_3^4a_7}{a_0^6}+$$
$$\frac{100a_1a_3a_4^4}{a_0^6}+\frac{100a_1a_2^4a_{11}}{a_0^6}+\frac{100a_2^4a_3a_9}{a_0^6}+\frac{100a_2^4a_4a_8}{a_0^6}+\frac{100a_2^4a_5a_7}{a_0^6}+\frac{100a_2a_3^4a_6}{a_0^6}-$$
$$\frac{120a_1^5a_2a_{13}}{a_0^7}-\frac{120a_1^5a_3a_{12}}{a_0^7}-\frac{120a_1^5a_4a_{11}}{a_n^7}-\frac{120a_1^5a_5a_{10}}{a_0^7}-\frac{120a_1^5a_6a_9}{a_{00}^7}-\frac{120a_1^5a_7a_8}{a_0^7}-$$
$$\frac{120a_1a_2^5a_9}{a_0^7}-\frac{120a_1a_3^5a_4}{a_0^7}-\frac{120a_2^5a_3a_7}{a_0^7}-\frac{120a_2^5a_4a_6}{a_0^7}+\frac{140a_1^6a_2}{a_0^8}+\frac{140a_1^6a_3a_{11}}{a_0^8}+$$
$$\frac{140a_1^6a_4a_{10}}{a_0^8}+\frac{140a_1^6a_5a_9}{a_0^8}+\frac{140a_1^6a_6a_8}{a_0^8}+\frac{140a_1a_2^6a_7}{a_0^8}+\frac{140a_2^6a_3a_5}{a_0^8}-\frac{160a_1^7a_2a_{11}}{a_0^9}-$$
$$\frac{160a_1^7a_3a_{10}}{a_0^9}-\frac{160a_1^7a_4a_9}{a_0^9}-\frac{160a_1^7a_5a_8}{a_0^9}-\frac{160a_1^7a_6a_7}{a_0^9}-\frac{160a_1a_2^7a_5}{a_0^9}+\frac{180a_1^8a_2a_{10}}{a_0^{10}}+$$
$$\frac{180a_1^8a_3a_9}{a_0^{10}}+\frac{180a_1^8a_4a_8}{a_0^{10}}+\frac{180a_1^8a_5a_7}{a_0^{10}}+\frac{180a_1a_2^8a_3}{a_0^{10}}-\frac{200a_1^9a_2a_9}{a_0^{11}}-\frac{200a_1^9a_3a_8}{a_0^{11}}-$$
$$\frac{200a_1^9a_4a_7}{a_0^{11}}-\frac{200a_1^9a_5a_6}{a_0^{11}}+\frac{220a_1^{10}a_2a_8}{a_0^{12}}+\frac{220a_1^{10}a_3a_7}{a_0^{12}}+\frac{220a_1^{10}a_4a_6}{a_0^{12}}-\frac{240a_1^{11}a_2a_7}{a_0^{13}}-$$
$$\frac{240a_1^{11}a_3a_6}{a_0^{13}}-\frac{240a_1^{11}a_4a_5}{a_0^{13}}+\frac{260a_1^{12}a_2a_6}{a_0^{14}}+\frac{260a_1^{12}a_3a_5}{a_0^{14}}-\frac{280a_1^{13}a_2a_5}{a_0^{15}}-\frac{280a_1^{13}a_3a_4}{a_0^{15}}+$$
$$\frac{300a_1^{14}a_2a_4}{a_0^{16}}-\frac{320a_1^{15}a_2a_3}{a_0^{17}}-\frac{120a_1^2a_2a_8^2}{a_0^5}-\frac{120a_1^2a_2^2a_{14}}{a_0^5}-\frac{120a_1^2a_3^2a_{12}}{a_0^5}-\frac{120a_1^2a_4^2a_{10}}{a_0^5}-$$
$$\frac{120a_1^2a_5^2a_8}{a_0^5}-\frac{120a_1^2a_4a_7^2}{a_0^5}-\frac{120a_2^2a_3^2a_{10}}{a_0^5}-\frac{120a_2^2a_4^2a_8}{a_0^5}-\frac{120a_2^2a_5^2a_6}{a_0^5}-\frac{120a_2^2a_4a_6^2}{a_0^5}-$$
$$\frac{120a_3^2a_4^2a_6}{a_0^5}-\frac{120a_3^2a_4a_5^2}{a_0^5}-\frac{120a_2a_3^2a_6^2}{a_0^5}-\frac{120a_2a_4^2a_5^2}{a_0^5}+\frac{200a_1^3a_5a_6^2}{a_0^6}+\frac{200a_1^3a_2^2a_{13}}{a_0^6}+$$
$$\frac{200a_1^3a_3^2a_{11}}{a_0^6}+\frac{200a_1^3a_4^2a_9}{a_0^6}+\frac{200a_1^3a_5^2a_7}{a_0^6}+\frac{200a_1^3a_3a_7^2}{a_0^6}+\frac{200a_1^2a_2^3a_{12}}{a_0^6}+\frac{200a_1^2a_3^3a_9}{a_0^6}+$$
$$\frac{200a_1^2a_4^3a_6}{a_0^6}+\frac{200a_1^2a_3a_5^3}{a_0^6}+\frac{200a_1a_3^3a_5^2}{a_0^6}+\frac{200a_1a_2^2a_5^3}{a_0^6}+\frac{200a_2^3a_3^2a_8}{a_0^6}+\frac{200a_2^3a_4^2a_6}{a_0^6}+$$
$$\frac{200a_2^3a_4a_5^2}{a_0^6}+\frac{200a_2^2a_3^3a_7}{a_0^6}+\frac{200a_2a_3^2a_4^3}{a_0^6}-\frac{300a_1^4a_4a_6^2}{a_0^7}-\frac{300a_1^4a_2^2a_{12}}{a_0^7}-\frac{300a_1^4a_3^2a_{10}}{a_0^7}-$$
$$\frac{300a_1^4a_4^2a_8}{a_0^7}-\frac{300a_1^4a_5^2a_6}{a_0^7}-\frac{300a_1^2a_2a_7^2}{a_0^7}-\frac{300a_1^2a_2a_4^4}{a_0^7}-\frac{300a_1^2a_2^4a_{10}}{a_0^7}-\frac{300a_1^2a_3^4a_6}{a_0^7}-$$
$$\frac{300a_2^4a_3^2a_6}{a_0^7}-\frac{300a_2^2a_3^4a_4}{a_0^7}+\frac{420a_1^5a_3a_6^2}{a_0^8}+\frac{420a_1^5a_2^2a_{11}}{a_0^8}+\frac{420a_1^5a_3^2a_9}{a_0^8}+\frac{420a_1^5a_4^2a_7}{a_0^8}+$$
$$\frac{420a_1^2a_2^5a_8}{a_0^8}+\frac{420a_1a_2^2a_3^5}{a_0^8}+\frac{420a_2^5a_3^2a_4}{a_0^8}-\frac{560a_1^6a_2^2a_{10}}{a_0^9}-\frac{560a_1^6a_3^2a_8}{a_0^9}-\frac{560a_1^6a_4^2a_6}{a_0^9}-$$
$$\frac{560a_1^6a_4a_5^2}{a_0^9}-\frac{560a_1^6a_2a_6^2}{a_0^9}-\frac{560a_1^2a_2^6a_6}{a_0^9}+\frac{720a_1^7a_2^2a_9}{a_0^{10}}+\frac{720a_1^7a_3^2a_7}{a_0^{10}}+\frac{720a_1^7a_4^2a_5}{a_0^{10}}+$$
$$\frac{720a_1^7a_3a_5^2}{a_0^{10}}+\frac{720a_1^2a_2^7a_4}{a_0^{10}}-\frac{900a_1^8a_2^2a_8}{a_0^{11}}-\frac{900a_1^8a_3^2a_6}{a_0^{11}}-\frac{900a_1^8a_2a_5^2}{a_{00}^{11}}+\frac{1100a_1^9a_2^2a_7}{a_0^{12}}+$$

$$\frac{1100a_1^9a_3^2a_5}{a_0^{12}}+\frac{1100a_1^9a_3a_4^2}{a_0^{12}}-\frac{1320a_1^{10}a_2^2a_6}{a_0^{13}}-\frac{1320a_1^{10}a_3^2a_4}{a_0^{13}}-\frac{1320a_1^{10}a_2a_4^2}{a_0^{13}}+$$
$$\frac{1560a_1^{11}a_2^2a_5}{a_0^{14}}-\frac{1820a_1^{12}a_2^2a_4}{a_0^{15}}-\frac{1820a_1^{12}a_2a_3^2}{a_0^{15}}+\frac{2100a_1^{13}a_2^2a_3}{a_0^{16}}-\frac{400a_1^3a_2^3a_{11}}{a_0^7}-$$
$$\frac{400a_1^3a_3^3a_8}{a_0^7}-\frac{400a_1^3a_4^3a_5}{a_0^7}-\frac{400a_1^3a_2a_5^3}{a_0^7}-\frac{400a_2^3a_3^3a_5}{a_0^7}+\frac{700a_1^4a_2^3a_{10}}{a_0^8}+\frac{700a_1^4a_3^3a_7}{a_0^8}+$$
$$\frac{700a_1^3a_2^4a_9}{a_0^8}+\frac{700a_1^3a_3^4a_5}{a_0^8}-\frac{1120a_1^5a_3a_4^3}{a_0^9}-\frac{1120a_1^5a_2^3a_9}{a_0^9}-\frac{1120a_1^5a_3^3a_6}{a_0^9}-\frac{1120a_1^3a_2a_3^5}{a_0^9}-$$
$$\frac{1120a_1^3a_2^5a_7}{a_0^9}-\frac{1120a_1a_2^5a_3^3}{a_0^9}+\frac{1680a_1^6a_2a_4^3}{a_0^{10}}+\frac{1680a_1^6a_2^3a_8}{a_0^{10}}+\frac{1680a_1^6a_3^3a_5}{a_0^{10}}+$$
$$\frac{1680a_1^3a_2^6a_5}{a_0^{10}}-\frac{2400a_1^7a_2^3a_7}{a_0^{11}}-\frac{2400a_1^7a_3^3a_4}{a_0^{11}}-\frac{2400a_1^3a_2^7a_3}{a_0^{11}}+\frac{3300a_1^8a_2^3a_6}{a_0^{12}}-$$
$$\frac{4400a_1^9a_2^3a_5}{a_0^{13}}-\frac{4400a_1^9a_2a_3^3}{a_0^{13}}+\frac{5720a_1^{10}a_2^3a_4}{a_0^{14}}-\frac{7280a_1^{11}a_2^3a_3}{a_0^{15}}-\frac{1400a_1^4a_2^4a_8}{a_0^9}-$$
$$\frac{1400a_1^4a_3^4a_4}{a_0^9}+\frac{2520a_1^5a_2^4a_7}{a_0^{10}}+\frac{2520a_1^4a_2^5a_6}{a_0^{10}}-\frac{4200a_1^6a_2a_3^4}{a_0^{11}}-\frac{4200a_1^6a_2^4a_6}{a_0^{11}}-$$
$$\frac{4200a_1^4a_2^6a_4}{a_0^{11}}+\frac{6600a_1^7a_2^4a_5}{a_0^{12}}-\frac{9900a_1^8a_2^4a_4}{a_0^{13}}+\frac{14300a_1^9a_2^4a_3}{a_0^{14}}-\frac{5040a_1^5a_2^5a_5}{a_0^{11}}+$$
$$\frac{9240a_1^6a_2^5a_4}{a_0^{12}}+\frac{9240a_1^5a_2^6a_3}{a_0^{12}}-\frac{15840a_1^7a_2^5a_3}{a_0^{13}}+\frac{300a_1^2a_2^2a_7^2}{a_0^6}+\frac{300a_1^2a_3^2a_6^2}{a_n^6}+\frac{300a_1^2a_4^2a_5^2}{a_0^6}+$$
$$\frac{300a_2^2a_3^2a_5^2}{a_0^6}-\frac{600a_1^2a_2^3a_6^2}{a_0^7}-\frac{600a_1^2a_3^2a_4^3}{a_0^7}+\frac{600a_2^3a_3^2a_4^2}{a_0^7}+\frac{1050a_1^2a_2^4a_5^2}{a_0^8}+\frac{1050a_1^4a_2^2a_6^2}{a_0^8}+$$
$$\frac{1050a_1^4a_2^2a_5^2}{a_0^8}-\frac{1680a_1^2a_2^5a_4^2}{a_0^9}+\frac{2520a_1^6a_2^2a_5^2}{a_0^{10}}+\frac{2520a_1^6a_2^2a_4^2}{a_0^{10}}+\frac{2520a_1^2a_2^6a_3^2}{a_0^{10}}+$$
$$\frac{4950a_1^8a_2^2a_4^2}{a_0^{12}}+\frac{8580a_1^{10}a_2^2a_3^2}{a_0^{14}}+\frac{1400a_1^3a_3^3a_4^2}{a_0^8}+\frac{1400a_1^2a_2^3a_4^3}{a_0^8}-\frac{2800a_1^4a_2^2a_4^3}{a_0^9}-$$
$$\frac{2800a_1^4a_2^3a_5^2}{a_0^9}-\frac{2800a_1^2a_2^3a_3^4}{a_0^9}-\frac{8400a_1^6a_2^3a_{n4}^2}{a_0^{11}}+\frac{13200a_1^7a_2^2a_3^3}{0}-\frac{19800a_1^8a_2^3a_3^2}{a_0^{13}}+$$
$$\frac{6300a_1^4a_2^4a_4^2}{a_0^{10}}+\frac{6300a_1^4a_2^2a_3^4}{a_0^{10}}-\frac{12600a_1^4a_2^5a_3^2}{a_0^{11}}+\frac{23100a_1^6a_2^4a_3^2}{a_0^{12}}+\frac{8400a_1^3a_2^4a_3^3}{a_0^{10}}-$$
$$\frac{16800a_1^5a_2^3a_3^3}{a_0^{11}}+\frac{120a_1a_2a_3a_{14}}{a_0^4}+\frac{120a_1a_2a_4a_{13}}{a_0^4}+\frac{120a_1a_2a_5a_{12}}{a_0^4}+\frac{120a_1a_2a_6a_{11}}{a_0^4}+$$
$$\frac{120a_1a_2a_7a_{10}}{a_0^4}+\frac{120a_1a_2a_8a_9}{a_0^4}+\frac{120a_1a_3a_4a_{12}}{a_0^4}+\frac{120a_1a_3a_5a_{11}}{a_0^4}+\frac{120a_1a_3a_6a_{10}}{a_0^4}+$$
$$\frac{120a_1a_3a_7a_9}{a_0^4}+\frac{120a_1a_4a_5a_{10}}{a_0^4}+\frac{120a_1a_4a_6a_9}{a_0^4}+\frac{120a_1a_4a_7a_8}{a_n^4}+\frac{120a_1a_5a_6a_8}{a_n^4}+$$
$$\frac{120a_2a_3a_4a_{11}}{a_n^4}+\frac{120a_2a_3a_5a_{10}}{a_0^4}+\frac{120a_2a_3a_6a_9}{a_0^4}+\frac{120a_2a_3a_7a_8}{a_0^4}+\frac{120a_2a_4a_5a_9}{a_0^4}+$$
$$\frac{120a_2a_4a_6a_8}{a_0^4}+\frac{120a_2a_5a_6a_7}{a_0^4}+\frac{120a_3a_4a_5a_8}{a_0^4}+\frac{120a_3a_4a_6a_7}{a_0^4}-\frac{240a_1^2a_2a_3a_{13}}{a_0^5}-$$
$$\frac{240a_1^2a_2a_4a_{12}}{a_0^5}-\frac{240a_1^2a_2a_5a_{11}}{a_0^5}-\frac{240a_1^2a_2a_6a_{10}}{a_0^5}-\frac{240a_1^2a_2a_7a_9}{a_0^5}-\frac{240a_1^2a_3a_4a_{11}}{a_0^5}-$$
$$\frac{240a_1^2a_3a_5a_{10}}{a_0^5}-\frac{240a_1^2a_3a_6a_9}{a_0^5}-\frac{240a_1^2a_3a_7a_8}{a_0^5}-\frac{240a_1^2a_4a_5a_9}{a_0^5}-\frac{240a_1^2a_4a_6a_8}{a_0^5}-$$
$$\frac{240a_1^2a_5a_6a_7}{a_0^5}-\frac{240a_1a_2^2a_3a_{12}}{a_0^5}-\frac{240a_1a_2^2a_4a_{11}}{a_0^5}-\frac{240a_1a_2^2a_5a_{10}}{a_0^5}-\frac{240a_1a_2^2a_6a_9}{a_0^5}-$$
$$\frac{240a_1a_2^2a_7a_8}{a_0^5}-\frac{240a_1a_2a_3^2a_{11}}{a_0^5}-\frac{240a_1a_3^2a_4a_9}{a_0^5}-\frac{240a_1a_3^2a_5a_8}{a_0^5}-\frac{240a_1a_3^2a_6a_7}{a_0^5}-$$

$$\frac{240a_1a_2a_4^2a_9}{a_0^5} - \frac{240a_1a_3a_4^2a_8}{a_0^5} - \frac{240a_1a_4^2a_5a_6}{a_0^5} - \frac{240a_1a_2a_5^2a_7}{a_0^5} - \frac{240a_1a_3a_5^2a_6}{a_0^5} - \frac{240a_1a_2a_5a_6^2}{a_0^5} - \frac{240a_1a_3a_4a_6^2}{a_0^5} - \frac{240a_1a_2a_3a_7^2}{a_0^5} - \frac{240a_2^2a_3a_4a_9}{a_0^5} - \frac{240a_2^2a_3a_5a_8}{a_0^5} - \frac{240a_2^2a_3a_6a_7}{a_0^5} - \frac{240a_2^2a_4a_5a_7}{a_0^5} - \frac{240a_2a_3^2a_4a_8}{a_0^5} - \frac{240a_2a_3^2a_5a_7}{a_0^5} - \frac{240a_2a_3a_4^2a_7}{a_0^5} + \frac{400a_1^3a_2a_3a_{12}}{a_0^6} + \frac{400a_1^3a_2a_4a_{11}}{a_0^6} + \frac{400a_1^3a_2a_5a_{10}}{a_0^6} + \frac{400a_1^3a_2a_6a_9}{a_0^6} + \frac{400a_1^3a_2a_7a_8}{a_0^6} + \frac{400a_1^3a_3a_4a_{10}}{a_0^6} + \frac{400a_1^3a_3a_5a_9}{a_0^6} + \frac{400a_1^3a_3a_6a_8}{a_0^6} + \frac{400a_1^3a_4a_5a_8}{a_0^6} + \frac{400a_1^3a_4a_6a_7}{a_0^6} + \frac{400a_1a_2^3a_3a_{10}}{a_0^6} + \frac{400a_1a_2^3a_4a_9}{a_0^6} + \frac{400a_1a_2^3a_5a_8}{a_0^6} + \frac{400a_1a_2^3a_6a_7}{a_0^6} + \frac{400a_1a_2a_3^3a_8}{a_0^6} + \frac{400a_1a_3^3a_4a_6}{a_0^6} + \frac{400a_1a_2a_4^3a_5}{a_0^6} + \frac{400a_2^3a_3a_4a_7}{a_0^6} + \frac{400a_2^3a_3a_5a_6}{a_n^6} + \frac{400a_2a_3^3a_4a_5}{a_0^6} - \frac{600a_1^4a_2a_3a_{11}}{a_0^7} - \frac{600a_1^4a_2a_4a_{10}}{a_0^7} - \frac{600a_1^4a_2a_5a_9}{a_0^7} - \frac{600a_1^4a_2a_6a_8}{a_0^7} - \frac{600a_1^4a_3a_4a_9}{a_0^7} - \frac{600a_1^4a_3a_5a_8}{a_0^7} - \frac{600a_1^4a_3a_6a_7}{a_0^7} - \frac{600a_1^4a_4a_5a_7}{a_0^7} - \frac{600a_1a_2^4a_3a_8}{a_0^7} - \frac{600a_1a_2^4a_4a_7}{a_0^7} - \frac{600a_1a_2^4a_5a_6}{a_0^7} - \frac{600a_1a_2a_3^4a_5}{a_0^7} - \frac{600a_2^4a_3a_4a_5}{a_0^7} + \frac{840a_1^5a_2a_3a_{10}}{a_0^8} + \frac{840a_1^5a_2a_4a_9}{a_0^8} + \frac{840a_1^5a_2a_5a_8}{a_0^8} + \frac{840a_1^5a_2a_6a_7}{a_0^8} + \frac{840a_1^5a_3a_4a_8}{a_0^8} + \frac{840a_1^5a_3a_5a_7}{a_0^8} + \frac{840a_1^5a_4a_5a_6}{a_0^8} + \frac{840a_1a_2^5a_3a_6}{a_0^8} + \frac{840a_1a_2^5a_4a_5}{a_0^8} - \frac{1120a_1^6a_2a_3a_9}{a_0^9} - \frac{1120a_1^6a_2a_4a_8}{a_0^9} - \frac{1120a_1^6a_2a_5a_7}{a_0^9} - \frac{1120a_1^6a_3a_4a_7}{a_0^9} - \frac{1120a_1^6a_3a_5a_6}{a_0^9} - \frac{1120a_1a_2^6a_3a_4}{a_0^9} + \frac{1440a_1^7a_2a_3a_8}{a_0^{10}} + \frac{1440a_1^7a_2a_4a_7}{a_0^{10}} + \frac{1440a_1^7a_2a_5a_6}{a_0^{10}} + \frac{1440a_1^7a_3a_4a_6}{a_0^{10}} - \frac{1800a_1^8a_2a_3a_7}{a_0^{11}} - \frac{1800a_1^8a_2a_4a_6}{a_0^{11}} - \frac{1800a_1^8a_3a_4a_5}{a_0^{11}} + \frac{2200a_1^9a_2a_3a_6}{a_0^{12}} + \frac{2200a_1^9a_2a_4a_5}{a_0^{12}} - \frac{2640a_1^{10}a_2a_3a_5}{a_0^{13}} + \frac{3120a_1^{11}a_2a_3a_4}{a_0^{14}} + \frac{600a_1^2a_2^2a_3a_{11}}{a_0^6} + \frac{600a_1^2a_2^2a_4a_{10}}{a_0^6} + \frac{600a_1^2a_2^2a_5a_9}{a_0^6} + \frac{600a_1^2a_2^2a_6a_8}{a_0^6} + \frac{600a_1^2a_2a_3^2a_{10}}{a_0^6} + \frac{600a_1^2a_3^2a_4a_8}{a_0^6} + \frac{600a_1^2a_3^2a_5a_7}{a_0^6} + \frac{600a_1^2a_2a_4^2a_8}{a_0^6} + \frac{600a_1^2a_3a_4^2a_7}{a_0^6} + \frac{600a_1^2a_2a_5^2a_6}{a_0^6} + \frac{600a_1^2a_2a_4a_6^2}{a_0^6} + \frac{600a_1a_2^2a_3^2a_9}{a_0^6} + \frac{600a_1a_2^2a_4^2a_7}{a_0^6} + \frac{600a_1a_2^2a_3a_6^2}{a_0^6} + \frac{600a_1a_3^2a_4^2a_5}{a_0^6} + \frac{600a_2^2a_3^2a_4a_6}{a_0^6} + \frac{600a_2^2a_3a_4^2a_5}{a_0^6} - \frac{1200a_1^3a_2^2a_3a_{10}}{a_0^7} - \frac{1200a_1^3a_2^2a_4a_9}{a_0^7} - \frac{1200a_1^3a_2^2a_5a_8}{a_0^7} - \frac{1200a_1^3a_2^2a_6a_7}{a_0^7} - \frac{1200a_1^3a_2a_3^2a_9}{a_0^7} - \frac{1200a_1^3a_3^2a_4a_7}{a_0^7} - \frac{1200a_1^3a_3^2a_5a_6}{a_0^7} - \frac{1200a_1^3a_2a_4^2a_7}{a_0^7} - \frac{1200a_1^3a_3a_4^2a_6}{a_0^7} - \frac{1200a_1^3a_3a_4a_5^2}{a_0^7} - \frac{1200a_1^3a_2a_3a_6^2}{a_0^7} - \frac{1200a_1^2a_2^3a_3a_9}{a_0^7} - \frac{1200a_1^2a_2^3a_4a_8}{a_0^7} - \frac{1200a_1^2a_2^3a_5a_7}{a_0^7} - \frac{1200a_1^2a_2a_3^3a_7}{a_0^7} - \frac{1200a_1^2a_3^3a_4a_5}{a_0^7} - \frac{1200a_1a_2^3a_3^2a_7}{a_0^7} - \frac{1200a_1a_2^3a_4^2a_5}{a_0^7} - \frac{1200a_1a_2^2a_3^3a_6}{a_0^7} - \frac{1200a_1a_2^2a_3a_4^3}{a_0^7} - \frac{12000a_1a_2^3a_3a_5^2}{a_0^7} - \frac{12000a_1a_2a_3^3a_4^2}{a_0^7} + \frac{2100a_1^4a_2^2a_3a_9}{a_0^8} + \frac{2100a_1^4a_2^2a_4a_8}{a_0^8} + \frac{2100a_1^4a_2^2a_5a_7}{a_0^8} + \frac{2100a_1^4a_2a_3^2a_8}{a_0^8} + \frac{2100a_1^4a_3^2a_4a_6}{a_0^8} + \frac{2100a_1^4a_2a_4^2a_6}{a_0^8} + \frac{2100a_1^4a_3a_4^2a_5}{a_0^8} +$$

$$\frac{2100a_1^4a_2a_4a_5^2}{a_0^8}+\frac{2100a_1^2a_2^4a_3a_7}{a_0^8}+\frac{2100a_1^2a_2^4a_4a_6}{a_0^8}+\frac{2100a_1^2a_2a_3^4a_4}{a_0^8}+\frac{2100a_1a_2^4a_3^2a_5}{a_0^8}+\frac{2100a_1a_2^4a_3a_4^2}{a_0^8}-\frac{3360a_1^5a_2^2a_3a_8}{a_0^9}-\frac{3360a_1^5a_2^2a_4a_7}{a_0^9}-\frac{3360a_1^5a_2^2a_5a_6}{a_0^9}-\frac{3360a_1^5a_2a_3^2a_7}{a_0^9}-\frac{3360a_1^5a_3^2a_4a_5}{a_0^9}-\frac{3360a_1^5a_2a_4^2a_5}{a_0^9}-\frac{3360a_1^5a_2a_3a_5^2}{a_0^9}-\frac{3360a_1^2a_2^5a_3a_5}{a_0^9}+\frac{5040a_1^6a_2^2a_3a_7}{a_0^{10}}+\frac{5040a_1^6a_2^2a_4a_6}{a_0^{10}}+\frac{5040a_1^6a_2a_3^2a_6}{a_0^{10}}-\frac{7200a_1^7a_2^2a_3a_6}{a_0^{11}}-\frac{7200a_1^7a_2^2a_4a_5}{a_0^{11}}-\frac{7200a_1^7a_2a_3^2a_5}{a_0^{11}}-\frac{7200a_1^7a_2a_3a_4^2}{a_0^{11}}+\frac{9900a_1^8a_2^2a_3a_5}{a_0^{12}}+\frac{9900a_1^8a_2a_3^2a_4}{a_0^{12}}-\frac{13200a_1^9a_2^2a_3a_4}{a_0^{13}}+\frac{2800a_1^3a_2^3a_3a_8}{a_0^8}+\frac{2800a_1^3a_2^3a_4a_7}{a_0^8}+\frac{2800a_1^3a_2^3a_5a_6}{a_0^8}+\frac{2800a_1^3a_2a_3^3a_6}{a_0^8}+\frac{2800a_1^3a_2a_3a_4^3}{a_0^8}+\frac{2800a_1a_2^3a_3^3a_4}{a_0^8}-\frac{5600a_1^4a_2^3a_3a_7}{a_0^9}-\frac{5600a_1^4a_2^3a_4a_6}{a_0^9}-\frac{5600a_1^4a_2a_3^3a_5}{a_0^9}-\frac{5600a_1^3a_2^4a_3a_6}{a_0^9}-\frac{5600a_1^3a_2^4a_4a_5}{a_0^9}+\frac{10080a_1^5a_2^3a_3a_6}{a_n^{10}}+\frac{10080a_1^5a_2^3a_4a_5}{a_0^{10}}+\frac{10080a_1^5a_2a_3^3a_4}{a_0^{10}}+\frac{10080a_1^3a_2^5a_3a_4}{a_0^{10}}-\frac{16800a_1^6a_2^3a_3a_5}{a_0^{11}}+\frac{26400a_1^7a_2^3a_3a_4}{a_0^{12}}+\frac{12600a_1^4a_2^4a_3a_5}{a_0^{10}}-\frac{25200a_1^5a_2^4a_3a_4}{a_0^{11}}-\frac{1800a_1^2a_2^2a_3^2a_8}{a_0^7}-\frac{1800a_1^2a_2^2a_4^2a_6}{a_0^7}-\frac{1800a_1^2a_2^2a_4a_5^2}{a_0^7}-\frac{1800a_1^2a_2a_3^2a_5^2}{a_0^7}+\frac{4200a_1^3a_2^2a_3^2a_7}{a_0^8}+\frac{4200a_1^3a_2^2a_4^2a_5}{a_0^8}+\frac{4200a_1^3a_2^2a_3a_5^2}{a_0^8}+\frac{4200a_1^2a_2^3a_3^2a_6}{a_0^8}+\frac{4200a_1^2a_2^2a_3^3a_5}{a_0^8}-\frac{8400a_1^4a_2^2a_3^2a_6}{a_0^9}-\frac{8400a_1^4a_2a_3^2a_4^2}{a_0^9}-\frac{8400a_1^2a_2^4a_3^2a_4}{a_0^9}+\frac{15120a_1^5a_2^2a_3^2a_5}{a_0^{10}}+\frac{15120a_1^5a_2^2a_3a_4^2}{a_0^{10}}-\frac{25200a_1^6a_2^2a_3^2a_4}{a_0^{11}}-\frac{11200a_1^3a_2^3a_3^2a_5}{a_0^9}-\frac{11200a_1^3a_2^3a_3a_4^2}{a_0^9}-\frac{11200a_1^3a_2^2a_3^3a_4}{a_0^9}+\frac{25200a_1^4a_2^3a_3^2a_4}{a_0^{10}}+\frac{6300a_1^2a_2^2a_3^2a_4^2}{a_0^8}-\frac{480a_1a_2a_3a_4a_{10}}{a_0^5}-\frac{480a_1a_2a_3a_5a_9}{a_0^5}-\frac{480a_1a_2a_3a_6a_8}{a_0^5}-\frac{480a_1a_2a_4a_5a_8}{a_0^5}-\frac{480a_1a_2a_4a_6a_7}{a_0^5}-\frac{480a_1a_3a_4a_5a_7}{a_0^5}-\frac{480a_2a_3a_4a_5a_6}{a_0^5}+\frac{1200a_1^2a_2a_3a_4a_9}{a_0^6}+\frac{1200a_1^2a_2a_3a_5a_8}{a_0^6}+\frac{1200a_1^2a_2a_3a_6a_7}{a_0^6}+\frac{1200a_1^2a_2a_4a_5a_7}{a_0^6}+\frac{1200a_1^2a_3a_4a_5a_6}{a_0^6}+\frac{1200a_1a_2^2a_3a_4a_8}{a_0^6}+\frac{1200a_1a_2^2a_3a_5a_7}{a_0^6}+\frac{1200a_1a_2^2a_4a_5a_6}{a_0^6}+\frac{1200a_1a_2^2a_3a_4a_7}{a_0^6}+\frac{1200a_1a_2a_3^2a_5a_6}{a_0^6}+\frac{1200a_1a_2a_3a_4^2a_6}{a_0^6}+\frac{1200a_1a_2a_3a_4a_5^2}{a_0^6}-\frac{2400a_1^3a_2a_3a_4a_8}{a_0^7}-\frac{2400a_1^3a_2a_3a_5a_7}{a_0^7}-\frac{2400a_1^3a_2a_4a_5a_6}{a_0^7}-\frac{2400a_1a_2^3a_3a_4a_6}{a_0^7}+\frac{4200a_1^4a_2a_3a_4a_7}{a_0^8}+\frac{4200a_1^4a_2a_3a_5a_6}{a_0^8}-\frac{6720a_1^5a_2a_3a_4a_6}{a_0^9}+\frac{10080a_1^6a_2a_3a_4a_5}{a_0^{10}}-\frac{3600a_1^2a_2^2a_3a_4a_7}{a_0^7}-\frac{3600a_1^2a_2^2a_3a_5a_6}{a_0^7}-\frac{3600a_1^2a_2a_3^2a_4a_6}{a_0^7}-\frac{3600a_1^2a_2a_3a_4^2a_5}{a_0^7}-\frac{3600a_1a_2^2a_3^2a_4a_5}{a_0^7}+\frac{8400a_1^3a_2^2a_3a_4a_6}{a_0^8}+\frac{8400a_1^3a_2a_3^2a_4a_5}{a_0^8}+\frac{8400a_1^2a_2^3a_3a_4a_5}{a_0^8}-\frac{16800a_1^4a_2^2a_3a_4a_5}{a_0^9}$$

Tableau 2: Tabulaire inverse

k	P(n)
0	1
1	$\frac{1}{2}(n-1)$
2	$\frac{1}{12}(n-2)(3n-1)$
3	$\frac{1}{8}(n-3)(n-1)n$
4	$\frac{1}{240}(n-4)(15n^3-30n^2+5n+2)$
5	$\frac{1}{96}(n-5)(n-1)n(3n^2-7n-2)$
6	$\frac{1}{4032}(n-6)(63n^5-315n^4+315n^3+91n^2-42n-16)$
7	$\frac{1}{1152}(n-7)(n-1)n(9n^4-54n^3+51n^2+58n+16)$
8	$\frac{1}{34560}(n-8)(135n^7-1260n^6+3150n^5-840n^4-2345n^3-540n^2+404n+1181)$
9	$\frac{1}{7680}(n-9)(n-1)n(15n^6-165n^5+465n^4+17n^3-648n^2-548n-144)$

Tableau 3: Tabulaire suite