Recurrence for A262015

$$16*(885742*n^6-8448616*n^5+33247138*n^4-69229168*n^3+80571826*n^2-49755497*n+12749010)*(2*n-1)^4*n^4*a(n)$$

$$= (38477518222*n^{14} - 520926400544*n^{13}+3182632953062*n^{12}-11634320731440*n^{11} + 28438021503292*n^{10} - 49189311659825*n^9 + 62129999904964*n^8 - 58269222356606*n^7 + 40826459184506*n^6 - 21298897222801*n^5 + 8158498702234*n^4 - 2229337005864*n^3 + 411631232400*n^2 - 46063427760*n + 2361402720)*a(n-1)$$

$$+ 16*(4*n-3)*(4*n-5)*(2*n-3)*(20372066*n^{11} - 245248333*n^{10} + 1290167649*n^9 - 3897363237*n^8 + 7471166071*n^7 - 9485451891*n^6 + 8089141693*n^5 - 4610074699*n^4 + 1715543671*n^3 - 396437020*n^2 + 51072250*n - 2755980)*a(n-2)$$

$$+ 64*(4*n-3)*(4*n-7)*(2*n-3)*(2*n-5)*(4*n-5)*(4*n-9)*(n-2)^2*(885742*n^6 - 3134164*n^5 + 4290188*n^4 - 3011936*n^3 + 1167120*n^2 - 239425*n + 20435)*a(n-3)$$

with $a(0) = 1$, $a(1) = 11$ and $a(2) = 603$.

Peter Bala Sep 21 2025