## Problem. Solve

 $571130 = -687x_0^5 + -329x_1^5 + 99x_2^9 + -654x_3^4 + 242x_4^{10} + -310x_5^3 + -288x_6^7 + -647x_7^5 + 818x_8^{10} + 803x_9^5 + 209x_{10}^4 + -822x_{11}^7 + 639x_{12}^5 + 512x_{13}^4 + 803x_{14}^5 + -231x_{15}^2 + -934x_{16}^8 + 764x_{17}^3 + -145x_{18}^7 + 731x_{19}^8 + 714x_{20}^9 + 256x_{21}^4 + 78x_{22}^3 + -753x_{23}^2 + -543x_{24}^7 + 336x_{25}^5 + -116x_{26}^2 + -925x_{27}^9 + -208x_{28}^3 + -542x_{29}^7 + -312x_{30}^{10} + -30x_{31}^7 + 966x_{32}^4 + -727x_{33}^3 + -140x_{34}^3 + -875x_{35}^4 + -875x_{35}^4 + -50x_{36}^9 + -399x_{37}^4 + 292x_{38}^7 + -995x_{39}^7 + 485x_{40}^8 + -499x_{41}^4 + -29x_{42}^4 + 816x_{43}^3 + -514x_{54}^4 + 536x_{45}^7 + 118x_{46}^8 + 379x_{47}^8 + -1018x_{48}^8 + -776x_{49}^8 + -1015x_{50}^6 + 664x_{51}^6 + 693x_{52}^4 + -393x_{53}^9 + 183x_{54}^5 + -797x_{55}^8 + 621x_{56}^8 + -168x_{57}^8 + -451x_{56}^6 + -518x_{59}^3 + -13x_{60}^3 + 42x_{61}^7 + -933x_{62}^6 + 316x_{63}^9 + -784x_{64}^7 + 693x_{45}^4 + -601x_{66}^6 + 430x_{57}^5 + -908x_{68}^4 + 724x_{69}^8 + 720x_{70}^{10} + 559x_{51}^5 + 510x_{72}^6 + 465x_{73}^9 + 463x_{74}^7 + -410x_{75}^4 + -630x_{76}^4 + -397x_{77}^8 + -631x_{70}^{10} + -1024x_{69}^6 + -829x_{60}^8 + -968x_{91}^9 + 247x_{10}^{10} + -772x_{53}^8 + -17x_{94}^8 + 509x_{65}^8 + 336x_{56}^8 + -965x_{47}^8 + 182x_{88}^9 + 316x_{89}^9 + -145x_{90}^9 + -438x_{91}^9 + -780x_{92}^{10} + 264x_{93}^9 + -132x_{94}^2 + 367x_{95}^9 + 895x_{96}^9 + 457x_{10}^{10} + -15x_{98}^2 + 340x_{99}^8 + 965x_{87}^4 + 182x_{88}^9 + 316x_{89}^9 + -145x_{90}^9 + -438x_{91}^9 + -780x_{92}^{10} + 264x_{93}^9 + -132x_{94}^2 + 367x_{95}^9 + 895x_{96}^9 + 457x_{10}^{10} + -15x_{98}^2 + 340x_{99}^8 + 316x_{89}^8 + -145x_{90}^9 + -438x_{91}^9 + -780x_{92}^{10} + 264x_{93}^3 + -132x_{94}^2 + 367x_{95}^9 + 895x_{96}^9 + 457x_{10}^9 + -15x_{98}^2 + 340x_{99}^8 + 316x_{10}^8 + -145x_{10}^9 +$ 

## Solution. Partials

- $\bullet \quad -571130 = -(1024) (895) + (132*92^2) (1018) (797) (1015) + (780*2^{10}) + (15*245^2) (367*2^9) (875) (764*2^3) + (803*3^5) (731) (727) (340*2^8) (654*5^4) (720) + (818) + (438*2^7) (457*2^{10}) (968) (965*2^4) (822) (316) (714) (310*10^3) (329*3^5) + (209*4^4) (925*2^9) (934) (753*29^2) (803) (288*3^7) + (99) + (145*2^7) (687*3^5) (784) + (242*2^{10}) (908) (905) (264*12^3) (647*2^5) (772)$
- $\bullet \ https://github.com/maxtuno/SAT\_EQUATION/blob/master/diophantine/big\_diophantine\_equations.txt$

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