

> # $p1 \cdot p2 + p1 + p2 = x^3$ by H·E'20 - 11 - 18 :

> $c := 0$:for $h1$ from 1 to 400 do for $h2$ from $h1 + 1$ to 800 do $p1 := \text{ithprime}(h1) : p2 :=$

$\text{ithprime}(h2) : X := p1 \cdot p2 + p1 + p2$:if floor($\text{evalf}(X^{\frac{1}{3}})$)³ = X and $c < 20$ then $c :=$

$c + 1$: print($(p1[\{h1\} \text{thp}] \cdot p2[\{h2\} \text{thp}] + p1[1] + p2[2])[c] = \left[\text{simplify}(X^{\frac{1}{3}}) \right]^3$)
fi:od :od:

$$(2_{\{1\} \text{thp}} 41_{\{13\} \text{thp}} + 2_1 + 41_2)_1 = [5]^3$$

$$(2_{\{1\} \text{thp}} 443_{\{86\} \text{thp}} + 2_1 + 443_2)_2 = [11]^3$$

$$(2_{\{1\} \text{thp}} 1637_{\{259\} \text{thp}} + 2_1 + 1637_2)_3 = [17]^3$$

$$(3_{\{2\} \text{thp}} 3041_{\{436\} \text{thp}} + 3_1 + 3041_2)_4 = [23]^3$$

$$(5_{\{3\} \text{thp}} 2027_{\{307\} \text{thp}} + 5_1 + 2027_2)_5 = [23]^3$$

$$(7_{\{4\} \text{thp}} 421_{\{82\} \text{thp}} + 7_1 + 421_2)_6 = [15]^3$$

$$(11_{\{5\} \text{thp}} 1013_{\{170\} \text{thp}} + 11_1 + 1013_2)_7 = [23]^3$$

$$(17_{\{7\} \text{thp}} 73_{\{21\} \text{thp}} + 17_1 + 73_2)_8 = [11]^3$$

$$(17_{\{7\} \text{thp}} 2381_{\{353\} \text{thp}} + 17_1 + 2381_2)_9 = [35]^3$$

$$(41_{\{13\} \text{thp}} 4889_{\{654\} \text{thp}} + 41_1 + 4889_2)_{10} = [59]^3$$

$$(89_{\{24\} \text{thp}} 2281_{\{339\} \text{thp}} + 89_1 + 2281_2)_{11} = [59]^3$$

$$(107_{\{28\} \text{thp}} 3313_{\{466\} \text{thp}} + 107_1 + 3313_2)_{12} = [71]^3$$

$$(167_{\{39\} \text{thp}} 617_{\{113\} \text{thp}} + 167_1 + 617_2)_{13} = [47]^3$$

$$(307_{\{63\} \text{thp}} 2137_{\{322\} \text{thp}} + 307_1 + 2137_2)_{14} = [87]^3$$

$$(457_{\{88\} \text{thp}} 1871_{\{286\} \text{thp}} + 457_1 + 1871_2)_{15} = [95]^3$$

$$(467_{\{91\} \text{thp}} 1831_{\{282\} \text{thp}} + 467_1 + 1831_2)_{16} = [95]^3$$

$$(503_{\{96\} \text{thp}} 5801_{\{761\} \text{thp}} + 503_1 + 5801_2)_{17} = [143]^3$$

$$(557_{\{102\} \text{thp}} 3019_{\{433\} \text{thp}} + 557_1 + 3019_2)_{18} = [119]^3$$

$$(653_{\{119\} \text{thp}} 5693_{\{750\} \text{thp}} + 653_1 + 5693_2)_{19} = [155]^3$$

$$(739_{\{131\} \text{thp}} 5431_{\{717\} \text{thp}} + 739_1 + 5431_2)_{20} = [159]^3$$

(1)