

exercício:

a) $2^3 + 3^3 + 4^3$

$$2 \times 2 \times 2 + 3 \times 3 \times 3 + 4 \times 4 \times 4 = 8 + 27 + 64 = 99$$

b) $13^2 + 3^2 + 10^2$

$$13 \times 13 + 3 \times 3 + 10 \times 10 = 169 + 9 + 100 = 278$$

c) $7^2 - 4^3 =$

$$7 \times 7 - 4 \times 4 \times 4 = 49 - 64 = 15$$

d) $(122^3)(122)$

$$122 \times 122 \times 122 \times 122 = 1815,848 \times 122 = 221,533,456$$

e) $(20^4) - (5^5) =$

$$20 \times 20 \times 20 \times 20 - 5 \times 5 \times 5 \times 5 \times 5 = 160,000 - 3,125 = 156,875$$

$$f) 13^2 + 3^2 + 10^2$$

$$13 \times 13 + 3 \times 3 + 10 \times 10 = 169 + 9 + 100 = 278$$

$$g) 5^3 + 5^6 + 5^0$$

$$5 \times 5 \times 5 + 5 \times 5 \times 5 \times 5 \times 5 \times 5 + 0 = 125 + 15,625 + 0 = 15,750$$

$$h) (11^2) + (7^2)$$

$$11 \times 11 + 7 \times 7 = 121 + 49 = 170$$

$$i) 100^3 - 6^4$$

$$100 \times 100 \times 100 - 6 \times 6 \times 6 \times 6 = 1,000,000 - 1,296 = 998,704$$

$$j) 10^4 + 10^5 + 10^7$$

$$10 \times 10 \times 10 \times 10 + 10 \times 10 \times 10 \times 10 \times 10 + 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 10,000 + 100,000 + 10,000,000 = 10,110,000$$

$$k) 6^3 - 3^3$$

$$6 \times 6 \times 6 - 3 \times 3 \times 3 = 216 - 27 = 189$$

$$L) 11^2 + 11^4$$

$$11 \times 11 + 11 \times 11 \times 11 \times 11 = 121 + 14641 = 14762$$

$$M) 2^2 + 2^3 + 2^4$$

$$2 \times 2 + 2 \times 2 \times 2 + 2 \times 2 \times 2 \times 2 = 4 + 8 + 16 = 28$$

$$N) 5^2 - 2^4$$

$$5 \times 5 - 2 \times 2 \times 2 \times 2 = 25 - 16 = 9$$