

Astrid Adriano Alva Antonio
4to administración

Semana 5

Potenciación Potenciación Suma
y resta

a) $2^3 + 3^3 + 4^3 = 8 + 27 + 64 = 99$

$$2 \times 2 \times 2 = 8$$

$$3 \times 3 \times 3 = 27$$

$$4 \times 4 \times 4 = 64$$

$$8 + 27 + 64 = 99$$

b) $13^2 + 3^2 + 10^2 = 169 + 9 + 100 = 278$

$$13 \times 13 = 169$$

$$3 \times 3 = 9$$

$$10 \times 10 = 100$$

$$169 + 9 + 100 = 278$$

c) $7^2 - 4^3 = 49 - 64 = -15$

$$7 \times 7 = 49$$

$$4 \times 4 \times 4 = 64$$

$$49 - 64 = -15$$

$$d) (122^3)(122) = 1,815,848 + 122 = 1,815,970$$

$$122 \times 122 \times 122 = 1,815,848$$

$$122 = 122$$

$$1,815,848 + 122 = 1,815,970$$

$$e) 20^4 - 5^5 = 156,875$$

$$20 \times 20 \times 20 \times 20 = 160,000$$

$$5 \times 5 \times 5 \times 5 \times 5 = 3,125$$

$$160,000 - 3,125 = 156,875$$

$$f) 13^2 + 3^2 + 10^2 = 169 + 9 + 100 = 278$$

$$13 \times 13 = 169$$

$$3 \times 3 = 9$$

$$10 \times 10 = 100$$

$$169 + 9 + 100 = 278$$

$$g) 5^3 + 5^6 + 5^0 = 125 + 15,625 + 1 = 15,751$$

$$5 \times 5 \times 5 = 125$$

$$5 \times 5 \times 5 \times 5 \times 5 \times 5 = 15,625$$

$$5^0 = 1$$

$$125 + 15,625 + 1 = 15,751$$

$$h) 11^2 + 7^2 = 121 + 49 = 170$$

$$11 \times 11 = 121$$

$$7 \times 7 = 49$$

$$121 + 49 = 170$$

$$i) 100^3 - 6^4 = 1,000,000 - 1,296 = 9,998,704$$

$$100 \times 100 \times 100 = 1,000,000$$

$$6 \times 6 \times 6 \times 6 = 1,296$$

$$1,000,000 - 1,296 = 9,998,704$$

$$j) 10^4 + 10^5 + 10^7 = 10,000 + 100,000 + 10,000,000 = 10,110,000$$

$$10 \times 10 \times 10 \times 10 = 10,000$$

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

$$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 = 10,000,000$$

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

$$k) 6^3 - 3^3 = 216 - 27 = -189$$

$$6 \times 6 \times 6 = 216$$

$$3 \times 3 \times 3 = 27$$

$$216 - 27 = -189$$

$$l) 11^2 + 11^4 = 121 + 14,641 = 14,762$$

$$11 \times 11 = 121$$

$$11 \times 11 \times 11 \times 11 = 14,641$$

$$121 + 14,641 = 14,762$$

$$m) 2^2 + 2^3 + 2^4 = 4 + 8 + 16 = 28$$

$$2 \times 2 = 4$$

$$2 \times 2 \times 2 = 8$$

$$2 \times 2 \times 2 \times 2 = 16$$

$$4 + 8 + 16 = 28$$

$$n) 5^2 - 2^4 = 25 - 16 = -9$$

$$5 \times 5 = 25$$

$$2 \times 2 \times 2 \times 2 = 16$$

$$25 - 16 = -9$$