$a^m \div a^n = a^{m-n}$, Si $m = n$, tenemos

$a^m \div a^n = a^0 = 1$

$a^0 = 1$

Tambien incluimos $a = 0$, así, $0^0 = 1$

2.23)

$6^0 + 6^1 + 6^2 = 1 + 6 + 36 = (43)$

2.24)

$4a^0 (4a)^0 = 4 \cdot 1 \cdot 1 = (4)$

2.25) $P = (2 - 3 - 4 + 7)^{2347}$, $Q = (-2 + 3 + 4 - 7)^{2347}$

$(2 + 3 + 4 + 7)^{P+Q}$?

$(-2 + 3 + 4 - 7) = -(2 - 3 - 4 + 7)$

$(2 + 3 + 4 + 7)^{(2-3-4+7)^{2347} + -(2-3-4+7)^{2347}}$

$X = (2 - 3 - 4 + 7)^{2347}$

$(2 + 3 + 4 + 7)^{X + (-X)} = (2 + 3 + 4 + 7)^0 = (1)$

Exercises

2.3.1)

a) $56 \div 4 + 3 \cdot 2^0 = 14 + 3 = (17)$

b) $7^4 (8 - 2^3) + 11^{4(8)-32}$

$7^4 (0) + 11^0 = 0 + 1 = (1)$

c) $7^0 + 3^2 \cdot 4 - 2(14 - 8 \div 2)$

$1 + 36 - 2(10)$

$1 + 36 - 20 = (17)$

2.3.2)

$3^0 + 3^1 + 3^2 + 3^3 = 1 + 3 + 9 + 27$

$= (40)$

2.3.3)

$x = 2$ y $y = -2$

$x^{x+y} + y^{x-y} =$

$2^0 + (-2)^4 = 1 + 16 = (17)$

2.3.4)

$3n^0 (7n)^0 = 3 \cdot 1 = (3)$

2.3.5

$6^0 x^2 + 6x^2$

$x^2 + 6x^2 = 7x^2$

c $a \cdot \frac{d}{bc} = \frac{ad}{bc}$