

2-6-1 Intro to Exponents

Ⓐ $4 \cdot 4 \cdot 4 = 4^3 = 64$

$10^6 = 1,000,000$

$2^8 = 256$

Ⓑ $5 \cdot 5 = 5^2 = 25$

$3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 3^5 = 243$

$9 \cdot 9 \cdot 9 = 9^3 = 729$

Ⓒ $0.3 \cdot 0.3 \cdot 0.3 = 0.3^3 = 0.027$

$5.1 \cdot 5.1 = 5.1^2 = 26.01$

$(-1.2)(-1.2)(-1.2) = (-1.2)^3 = -1.728$

Ⓓ $(0.2)^4$

$(0.01)^4 = 0.00000001$

$(1.5)^2$

Ⓔ $-3(-3)(-3)(-3) = (-3)^4$

For negatives the () are very important.

$-100(-100)(-100) = (-100)^3 = -1,000,000$

$(-1)^5 = -1$

Ⓕ a^5

x^{11}

2f 2f 2f 2f use commutative first

$2 \cdot 2 \cdot 2 \cdot 2 \cdot f \cdot f \cdot f \cdot f = 2^4 f^4 = 16 f^4$

Ⓖ $2^5 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 = 32$

$7^2 = 7 \cdot 7 = 49$

$8^2 = 8 \cdot 8 = 64$

Ⓕ $12^2 = 12 \cdot 12 = 144$

$15^2 = 15 \cdot 15 = 225$

$25 \cdot 25 = 625$

Ⓖ $(-4)(-4) = 16$

$(-10)(-10) = 100$

$(-13)(-13) = 169$

Ⓖ $(-4)^3 = (-4)(-4)(-4) = -64$

$(-12)(-12) = 144$

$(-5)(-5)(-5) = -125$

Ⓕ $(-10)^3 = (-10)(-10)(-10) = -1000$

$(0.5)(0.5)(0.5)(0.5) = 0.0625$

$(0.2)(0.2)(0.2)(0.2) =$

0.0016