4.2

Powers & Exponents

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- base - the # being multiplied
- exponent - how many times it is multiplied

$2^3 = 2 \cdot 2 \cdot 2 = 8$ / 2^n

$2^0 = 1$

$t \cdot t \cdot t \cdot t = t^4$

$7 \cdot a \cdot a \cdot a \cdot 6 \cdot 6$

$7a^3b^2$

$(-9)\cdot(-9)(-9) = (-9)^3$

13,048

$(1 \times 10{,}000) + (3 \times 1{,}000) + (4 \times 10) + (8 \times 1)$

$(1 \times 10^4) + (3 \times 10^3) + (4 \times 10^1) + (8 \times 10^0)$

$y = -3$ $\quad y^2 + 5$

$(-3)^2 + 5$

$(3)(-3) + 5$

$9 + 5$

14

$3(x+y)^4$ $\quad x = -2$, $y = 1$

$3(-2+1)^4$

$3(-1)^4$

$3 \cdot 1$

3

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Homework

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