

Exponent Properties

1) Multiply big #, add exponents

$$\text{ex. } (x^4 y^5)(x^1 y^2)$$

$$= x^3 y^7$$

$$\text{ex. } (2x^3)(3x^2)$$

$$= 6x^5$$

$$2) \frac{x^2}{x^4} = x^{-2}$$



ex.

$$\frac{15x^2}{5x}$$

$$= 3x$$

5) Quotient to a Power

ex $(2x^3)^4 \Rightarrow 2^4 \Rightarrow 2 \times 2 \times 2 \times 2$

$$= 16x^{12}$$

ex $\left(\frac{10x^2}{5x} \right)^4 = \frac{100x^4}{25x^1} = 4x^3$

Assignment #1

$$1) (a^3)(5a^3)$$

$$= 5a^6$$