

Neg And Zero Exponents (pt 2)

Not totally Simplified if...

- Two of the Same base

$$\text{Ex) } x^2 \cdot x^3 = x^5$$

$$\text{Ex) } \frac{x^5}{x^2} = x^3$$

$$\text{Ex) } -\frac{2^8}{2^3} = -2^5 = -32$$

- One base w/ two exponents

$$\text{Ex) } (x^2)^3 = x^6$$

- Zero exponent

$$\text{Ex) } 3x^1 y = 3y$$

$$\text{Ex) } (-2.5)^0 = 1$$

- Negative exponent

$$\text{Ex) } 4^{-3} = \frac{1}{4^3} = \boxed{\frac{1}{64}}$$

$$\text{Ex) } 3x^{-1}y = \boxed{\frac{3y}{x^1}}$$

$$\text{Ex) } \frac{2x^{-3}}{y^5} = \boxed{\frac{2y^5}{x^3}}$$