

Algebra /

Introduction to the quotient rule of exponents

$$\frac{x^1}{x^3} = \frac{\overbrace{x}^1}{\underbrace{x \cdot x \cdot x}_3} = \frac{1}{x^2}$$

OR

$$1 - 3 = -2 \quad x^{-2} = \frac{1}{x^2}$$

$$\frac{y^4}{y^2} = \frac{\overbrace{y \cdot y \cdot y \cdot y}^4}{\underbrace{y \cdot y}_2} = y^2$$

OR

$$4 - 2 = 2 \quad y^2$$