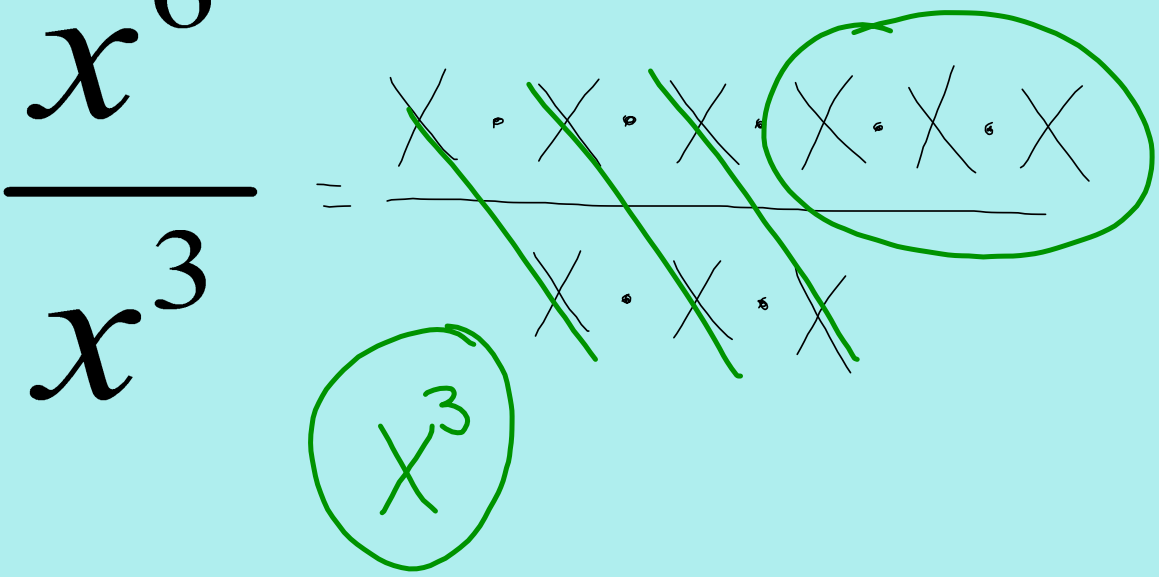
Division Property of Exponents

$$\frac{x^6}{x^3} =$$



$$\frac{x^7}{x^3} = \frac{x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x}{x \cdot x \cdot x} = x \cdot x \cdot x \cdot x = x^4$$

Notice 7 - 3 = 4

$$\frac{7k^4}{k^6} = \frac{7 \cdot k \cdot k \cdot k \cdot k}{k \cdot k \cdot k \cdot k \cdot k \cdot k} = \frac{7}{k \cdot k} = \frac{7}{k^2}$$

$$\frac{6d^3 \cdot d^2}{d^8} = \frac{6d \cdot d \cdot d \cdot d \cdot d}{d \cdot d \cdot d \cdot d \cdot d \cdot d \cdot d \cdot d} = \frac{6}{d \cdot d \cdot d} = \frac{6}{d^3}$$

$$\frac{6r^4y^6}{4r^7y^2} = \frac{6r\cdot r\cdot r\cdot r\cdot y\cdot y\cdot y\cdot y\cdot y\cdot y}{2r\cdot r\cdot r\cdot r\cdot r\cdot r\cdot r\cdot y\cdot y} = \frac{3y^4}{2r^3}$$

notice how $\frac{6}{4}$ was simplified to $\frac{3}{2}$

$$\frac{8w^3y^2}{4w^7y^2} = \frac{2w \cdot w \cdot w \cdot y \cdot y}{w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot y \cdot y} = \frac{2}{w^4}$$

8 divided by 4 is 2!

Get white boards and practice on your own!

You need a marker, eraser, and white board.

1. $\frac{x^6}{x^2} =$

2. $\frac{3r^5}{r^9} =$

3. $\frac{6n^3}{2n^2} =$

4. $\frac{8p^5s^8}{6p^3s^{10}} =$

Kahoot!!

When done with Kahoot, do problems 1-20 on the worksheet