Objective:

Debrief:

$$\frac{\frac{x}{x}}{=\frac{x \cdot x \cdot x}{x \cdot x \cdot x \cdot x \cdot x}} \qquad \frac{\frac{x^3}{x^5}}{=x^{3-5}} \qquad \frac{\frac{}{\cdot\ \cdot\ \cdot\ \cdot\ \cdot\ \cdot}}{\cdot\ \cdot} \qquad \frac{x}{x}$$

$$=\frac{}{x} \qquad =x^{-2} \qquad = \qquad =x^{\ -}$$

$$=\frac{1}{x^2} \qquad = \qquad =x$$

$$\frac{3^{5} \cdot {}^{2}}{3} \qquad \frac{\cdot}{}$$

$$=\frac{3\cdot\ \cdot\ \cdot\ \cdot\ \cdot\ \cdot}{2\cdot 3\cdot\ \cdot\ \cdot} \qquad =\frac{{}^{+}}{}$$

$$=\frac{{}^{4}}{2} \qquad =\frac{}{\cdot\ \cdot}$$

$$=\frac{{}^{-}}{}$$

$$=\frac{}{}$$

$$\left(\frac{x}{y}\right)^2$$

$$= \frac{x}{y} \cdot \frac{x}{y}$$

$$= \frac{x \cdot x}{y \cdot y}$$

$$= \frac{x^2}{y^2}$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, \text{ where } b \neq 0$$

NOT

$$\left(\frac{-3}{y}\right)^3 \qquad \left(\frac{a}{b}\right)^n$$

$$\left(\frac{-3}{y}\right)^3$$

$$= \frac{-3}{y} \cdot \frac{-3}{y}$$