

L-7

negative  
exponents

$$10^4 = 10,000$$

$$10^5 = 100,000$$

$$10^3 = 1,000$$

$$10^0 = 1$$

$$10^{-2} = 0.01$$

$$\frac{x^3}{x^5} = x^{-2} \quad x=2$$
$$\frac{x \cdot x \cdot x}{x \cdot x \cdot x \cdot 2 \cdot 2} = \frac{1}{4}$$

$$\frac{8}{32} = \frac{1}{4}$$

$$\frac{x \cdot x \cdot x}{x \cdot x \cdot x \cdot x \cdot x} = \frac{1}{x^2}$$
$$\frac{1}{x^2} = x^{-2}$$

$$\frac{1}{x^2} = x^{-2} - \frac{1}{100}$$

$$6^{-2} = \frac{1}{6^2}$$

$$10^2 = 100$$

$$\frac{1}{10^2} = 10^{-2}$$

$$\frac{1}{x^5} = x^{-5}$$

$$10^{-2} = 0.01$$

$$\frac{1}{100} = 0.01 = 10^{-2}$$

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Homework

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