



Simplifying Exponent Expressions

Name: _____

Date: _____ Score: _____

$$6x^7(x^6)^6x^3$$

$$7x^{(-3)}(x^{(-2)})^{(-2)}$$

$$3x^{(-6)}(x^4)^{(-2)}x^{(-3)}$$

$$8x^{(-4)}(x^2)^{(-2)}x^2$$

$$\frac{6x^4(x^6)^5}{3x^{(-2)}(x^{(-3)})^{(-3)}}$$

$$3x^{(-8)}(x^4)^3x^2$$

$$3x^{(-7)}(x^{(-3)})^4$$

$$7x^2(x^2)^6x^{(-3)}$$

$$6x^{(-3)}(x^{(-3)})^{(-2)}$$

$$\frac{3x^4(x^{(-3)})^{(-2)}}{7x^{(-2)}(x^{(-2)})^2}$$



Simplifying Exponent Expressions

Name: _____

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$$\frac{6x^7(x^6)^6x^3}{6x^{46}}$$

$$\frac{7x^{(-3)}(x^{(-2)})^{(-2)}}{7x}$$

$$\frac{3x^{(-6)}(x^4)^{(-2)}x^{(-3)}}{\frac{3}{x^{17}}}$$

$$\frac{8x^{(-4)}(x^2)^{(-2)}x^2}{\frac{8}{x^6}}$$

$$\frac{6x^4(x^6)^5}{3x^{(-2)}(x^{(-3)})^{(-3)}} = 2x^{27}$$

$$\frac{3x^{(-8)}(x^4)^3x^2}{3x^6}$$

$$\frac{3x^{(-7)}(x^{(-3)})^4}{\frac{3}{x^{19}}}$$

$$\frac{7x^2(x^2)^6x^{(-3)}}{7x^{11}}$$

$$\frac{6x^{(-3)}(x^{(-3)})^{(-2)}}{6x^3}$$

$$\frac{3x^4(x^{(-3)})^{(-2)}}{7x^{(-2)}(x^{(-2)})^2} = \frac{3}{7}x^{16}$$