



Simplifying Exponent Expressions

Name: _____

Date: _____ Score: _____

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

$$x^{(-5)}(x^4)^{-3}x^{(-1)}$$

$$\frac{2x^{(-1)}(x^6)^6}{8x^2(x^3)^3}$$

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

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

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

$$\frac{3x^8(x^{(-2)})^3}{7x^2(x^{(-3)})^3}$$

$$\frac{9x^3(x^2)^{-2}}{8x^2(x^2)^{-3}}$$

$$2x^3(x^{(-3)})^3x^{(-1)}$$

$$7x^{(-1)}(x^{(-3)})^2x^{(-3)}$$



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

$$x^{(-5)}(x^4)^{-3}x^{(-1)}$$
$$\frac{1}{x^{18}}$$

$$\frac{2x^{(-1)}(x^6)^6}{8x^2(x^3)^3}$$
$$\frac{x^{24}}{4}$$

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

$$\frac{3x^3(x^4)^4}{4x^{(-3)}(x^2)^4}$$
$$\frac{3}{4}x^{14}$$

$$3x^{(-4)}(x^{(-2)})^6$$
$$\frac{3}{x^{16}}$$

$$\frac{3x^8(x^{(-2)})^3}{7x^2(x^{(-3)})^3}$$
$$\frac{3}{7}x^9$$

$$\frac{9x^3(x^2)^{-2}}{8x^2(x^2)^{-3}}$$
$$\frac{9}{8}x^3$$

$$2x^3(x^{(-3)})^3x^{(-1)}$$
$$\frac{2}{x^7}$$

$$7x^{(-1)}(x^{(-3)})^2x^{(-3)}$$
$$\frac{7}{x^{10}}$$