



## Simplifying Exponent Expressions

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

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

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

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

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

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

$$x^{(-7)}(x^5)^5$$

$$4x^7(x^{(-2)})^5x^{(-3)}$$

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

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

$$8x^{(-7)}(x^4)^4x^{(-3)}$$



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$$\frac{3x^{(-4)}(x^{(-2)})^{(-2)}}{x^3(x^3)^2}$$
$$\frac{3}{x^9}$$

$$x^7(x^{(-2)})^4$$
$$\frac{1}{x}$$

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

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

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

$$x^{(-7)}(x^5)^5$$
$$x^{18}$$

$$4x^7(x^{(-2)})^5x^{(-3)}$$
$$\frac{4}{x^6}$$

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

$$7x^{(-3)}(x^4)^{(-2)}x^3$$
$$\frac{7}{x^8}$$

$$8x^{(-7)}(x^4)^4x^{(-3)}$$
$$8x^6$$