



Simplifying Exponent Expressions

Name: _____

Date: _____ Score: _____

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

$$8x^{(-9)}(x^3)^4$$

$$8x^6(x^2)^5x^{(-1)}$$

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

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

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

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

$$x^2(x^2)^2$$

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

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



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$$\frac{4x^{(-2)}(x^4)^4}{4x^{(-3)}(x^{(-2)})^{(-3)}} \\ x^{11}$$

$$8x^{(-9)}(x^3)^4 \\ 8x^3$$

$$8x^6(x^2)^5x^{(-1)} \\ 8x^{15}$$

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

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

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

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

$$x^2(x^2)^2 \\ x^6$$

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

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