



## Simplifying Exponent Expressions(2 Variables)

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

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

$$x^4 \times y^4(x^4 \times y^{(-12)})^{(-2)}$$

$$\frac{5x^2 \times y^5(x^2 \times y^2)^3}{9 \times y^{(-2)}(x^{(-1)})^2}$$

$$\frac{2x^3 \times y^{(-4)}(x^3 \times y^3)^3}{7 \times y^{(-1)}(x^{(-1)})^3}$$

$$7x^6 \times y^6(x^{(-2)} \times y^4)^{(-2)}$$

$$7 \times y^5x^{(-1)}(x^{(-3)})^5x^3(y^{(-1)})^2$$

$$2x^5 \times y^5(x^{(-1)} \times y^{(-3)})^{(-3)}$$

$$\frac{7x^6 \times y^{(-6)}(x^3 \times y^3)^3}{6 \times y^{(-3)}(x^{(-1)})^{(-1)}}$$

$$8x^5 \times y^5(x^4 \times y^5)^2$$

$$\frac{3x^{(-3)} \times y^3(x^3 \times y^3)^{(-2)}}{5 \times y^3(x^{(-1)})^2}$$

$$9 \times y^2x^{(-3)}(x^5)^3x^{(-2)}(y^3)^{(-1)}$$



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$$\frac{x^4 \times y^4(x^4 \times y^{(-12)})^{(-2)}}{x^4} = \frac{y^{28}}{x^4}$$

$$\frac{5x^2 \times y^5(x^2 \times y^2)^3}{9 \times y^{(-2)}(x^{(-1)})^2} = \frac{5}{9}x^{10}y^{13}$$

$$\frac{2x^3 \times y^{(-4)}(x^3 \times y^3)^3}{7 \times y^{(-1)}(x^{(-1)})^3} = \frac{2}{7}x^{15}y^6$$

$$\frac{7x^6 \times y^6(x^{(-2)} \times y^4)^{(-2)}}{y^2} = \frac{7x^{10}}{y^2}$$

$$\frac{7 \times y^5x^{(-1)}(x^{(-3)})^5x^3(y^{(-1)})^2}{x^{13}} = \frac{7y^3}{x^{13}}$$

$$\frac{2x^5 \times y^5(x^{(-1)} \times y^{(-3)})^{(-3)}}{y^{14}} = 2x^8y^{14}$$

$$\frac{7x^6 \times y^{(-6)}(x^3 \times y^3)^3}{6 \times y^{(-3)}(x^{(-1)})^{(-1)}} = \frac{7}{6}x^{14}y^6$$

$$\frac{8x^5 \times y^5(x^4 \times y^5)^2}{y^{15}} = 8x^{13}y^{15}$$

$$\frac{3x^{(-3)} \times y^3(x^3 \times y^3)^{(-2)}}{5 \times y^3(x^{(-1)})^2} = \frac{3}{5x^7y^6}$$

$$\frac{9 \times y^2x^{(-3)}(x^5)^3x^{(-2)}(y^3)^{(-1)}}{y} = \frac{9x^{10}}{y}$$