



## Simplifying Exponent Expressions(2 Variables)

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

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

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

$$4x^{(-6)} \times y^{(-6)}(x^3 \times y^{(-3)})^6$$

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

$$9x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^6)^6$$

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

$$8x^{(-5)} \times y^{(-5)}(x^{(-3)} \times y^3)^5$$

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

$$\frac{4x^{(-8)} \times y^6(x^3 \times y^3)^3}{5 \times y^{(-3)}(x^4)^3}$$

$$\frac{4x^9 \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^5}{3 \times y^{(-2)}(x^{(-1)})^4}$$

$$6x^2 \times y^2(x^{(-2)} \times y^{(-2)})^{(-1)}$$



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$$9x^{(-4)} \times y^{(-4)}(x^2 \times y^4)^{(-3)}$$
$$\frac{9}{x^{10}y^{16}}$$

$$4x^{(-6)} \times y^{(-6)}(x^3 \times y^{(-3)})^6$$
$$\frac{4x^{12}}{y^{24}}$$

$$\frac{x^7 \times y^{(-3)}(x^{(-1)} \times y^{(-1)})^{(-2)}}{7 \times y^{(-1)}(x^{(-1)})^4}$$
$$\frac{x^{13}}{7}$$

$$9x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^6)^6$$
$$\frac{9y^{31}}{x^{11}}$$

$$3 \times y^{(-1)}x^{(-6)}(x^{(-3)})^3x^{(-3)}(y^{(-3)})^{(-1)}$$
$$\frac{3y^2}{x^{18}}$$

$$8x^{(-5)} \times y^{(-5)}(x^{(-3)} \times y^3)^5$$
$$\frac{8y^{10}}{x^{20}}$$

$$5 \times y^{(-1)}x^{(-3)}(x^{(-2)})^5x^{(-2)}(y^{(-1)})^{(-1)}$$
$$\frac{5}{x^{15}}$$

$$\frac{4x^{(-8)} \times y^6(x^3 \times y^3)^3}{5 \times y^{(-3)}(x^4)^3}$$
$$\frac{4y^{18}}{5x^{11}}$$

$$\frac{4x^9 \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^5}{3 \times y^{(-2)}(x^{(-1)})^4}$$
$$\frac{4x^3}{3y^{14}}$$

$$6x^2 \times y^2(x^{(-2)} \times y^{(-2)})^{(-1)}$$
$$6x^4y^4$$