



## Simplifying Exponent Expressions(2 Variables)

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

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

$$3x^2 \times y^2(x^3 \times y^3)^4$$

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

$$6x^6 \times y^6(x^5 \times y^6)^2$$

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

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

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

$$8x^{(-4)} \times y^{(-4)}(x^{(-1)} \times y^5)^{(-2)}$$

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

$$3 \times y^{(-3)}x^6(x^3)^5x^3(y^3)^2$$

$$7 \times y^5x^{(-4)}(x^5)^{(-3)}x^{(-1)}(y^{(-2)})^3$$



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

$$3x^2 \times y^2(x^3 \times y^3)^4$$
$$3x^{14}y^{14}$$

$$1 \times y^2x^3(x^2)^6x^2(y^{(-3)})^{(-1)}$$
$$x^{17}y^5$$

$$6x^6 \times y^6(x^5 \times y^6)^2$$
$$6x^{16}y^{18}$$

$$4x^2 \times y^2(x^4 \times y^{(-12)})^2$$
$$\frac{4x^{10}}{y^{22}}$$

$$\frac{2x^{(-8)} \times y^{(-1)}(x^{(-2)} \times y^{(-2)})^2}{1 \times y^2(x^3)^4}$$
$$\frac{2}{x^{24}y^7}$$

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

$$8x^{(-4)} \times y^{(-4)}(x^{(-1)} \times y^5)^{(-2)}$$
$$\frac{8}{x^2y^{14}}$$

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

$$3 \times y^{(-3)}x^6(x^3)^5x^3(y^3)^2$$
$$3x^{24}y^3$$

$$7 \times y^5x^{(-4)}(x^5)^{(-3)}x^{(-1)}(y^{(-2)})^3$$
$$\frac{7}{x^{20}y}$$