



## Simplifying Exponent Expressions(2 Variables)

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

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

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

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

$$\frac{8x^6 \times y^2(x^5 \times y^5)^4}{5 \times y^{(-2)}(x^2)^3}$$

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

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

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

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

$$3x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^{(-12)})^6$$

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

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



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

$$5x^4 \times y^4(x^{(-3)} \times y^{(-2)})^{(-1)}$$
$$5x^7y^6$$

$$\frac{8x^6 \times y^2(x^5 \times y^5)^4}{5 \times y^{(-2)}(x^2)^3}$$
$$\frac{8}{5}x^{20}y^{24}$$

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

$$1 \times y^2x^3(x^4)^5x^{(-3)}(y^4)^5$$
$$x^{20}y^{22}$$

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

$$6 \times y^4x^2(x^{(-1)})^{(-1)}x^{(-1)}(y^3)^2$$
$$6x^2y^{10}$$

$$3x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^{(-12)})^6$$
$$\frac{3}{x^{11}y^{77}}$$

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

$$1 \times y^4x^{(-1)}(x^6)^2x^3(y^2)^2$$
$$x^{14}y^8$$