



Simplifying Exponent Expressions(2 Variables)

Name: _____

Date: _____ Score: _____

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

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

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

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

$$x^3 \times y^3(x^2 \times y^5)^4$$

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

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

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

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

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



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

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

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

$$\frac{3x^6 \times y^{(-3)}(x^2 \times y^2)^5}{3 \times y^{(-3)}(x^{(-2)})^3}$$
$$x^{22}y^{10}$$

$$x^3 \times y^3(x^2 \times y^5)^4$$
$$x^{11}y^{23}$$

$$\frac{3x^{(-7)} \times y^6(x^2 \times y^2)^5}{2 \times y^{(-1)}(x^4)^4}$$
$$\frac{3y^{17}}{2x^{13}}$$

$$1 \times y^{(-3)}x^{(-5)}(x^5)^2x^3(y^2)^5$$
$$x^8y^7$$

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

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

$$\frac{x^{(-4)} \times y^{(-1)}(x^2 \times y^2)^{(-3)}}{8 \times y^{(-2)}(x^3)^4}$$
$$\frac{1}{8x^{22}y^5}$$