



Simplifying Exponent Expressions(2 Variables)

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

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



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$$3 \times y^5 x^4 (x^5)^2 x^2 (y^{(-1)})^3$$
$$3x^{16}y^2$$

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

$$\frac{5x^5 \times y^{(-3)} (x^4 \times y^4)^{(-2)}}{2 \times y^{(-1)} (x^2)^4}$$
$$\frac{5}{2x^{11}y^{10}}$$

$$7 \times y^5 x^4 (x^6)^6 x^{(-3)} (y^2)^5$$
$$7x^{37}y^{15}$$

$$\frac{9x^3 \times y^2 (x^6 \times y^6)^2}{1 \times y^{(-3)} (x^2)^{(-1)}}$$
$$9x^{17}y^{17}$$

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

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

$$4 \times y^5 x^{(-2)} (x^2)^4 x^2 (y^{(-2)})^{(-2)}$$
$$4x^8y^9$$

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

$$\frac{7x^4 \times y^3 (x^{(-1)} \times y^{(-1)})^{(-3)}}{8 \times y^{(-2)} (x^4)^4}$$
$$\frac{7y^8}{8x^9}$$