



Simplifying Exponent Expressions(2 Variables)

Name: _____

Date: _____ Score: _____

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

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

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

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

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

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

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

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

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

$$x^{(-2)} \times y^{(-2)}(x^{(-3)} \times y^{(-12)})^{(-2)}$$



Simplifying Exponent Expressions(2 Variables)

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

$$8 \times y^3x^{(-1)}(x^{(-3)})^5x^{(-2)}(y^2)^{(-1)}$$
$$\frac{8y}{x^{18}}$$

$$8x^{(-5)} \times y^{(-5)}(x^2 \times y^{(-3)})^3$$
$$\frac{8x}{y^{14}}$$

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

$$\frac{3x^{(-2)} \times y^6(x^{(-2)} \times y^{(-2)})^4}{4 \times y^3(x^{(-1)})^2}$$
$$\frac{3}{4x^8y^5}$$

$$\frac{2x^9 \times y^{(-4)}(x^5 \times y^5)^5}{2 \times y^3(x^4)^4}$$
$$x^{18}y^{18}$$

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

$$9x^{(-3)} \times y^{(-3)}(x^{(-3)} \times y^4)^4$$
$$\frac{9y^{13}}{x^{15}}$$

$$\frac{3x^{(-8)} \times y^{(-3)}(x^4 \times y^4)^4}{6 \times y^3(x^{(-2)})^{(-2)}}$$
$$\frac{1}{2}x^4y^{10}$$

$$x^{(-2)} \times y^{(-2)}(x^{(-3)} \times y^{(-12)})^{(-2)}$$
$$x^4y^{22}$$