



## Simplification des expressions d'exposant ( 2 variables )

Nom: \_\_\_\_\_

Date: \_\_\_\_\_ Note: \_\_\_\_\_

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

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

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

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

$$8x^5 \times y^5 (x^5 \times y^3)^3$$

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

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

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

$$4x^{(-4)} \times y^{(-4)} (x^5 \times y^{(-12)})^{(-1)}$$

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



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$$7 \times y^{(-4)} x^2 (x^2)^4 x^{(-1)} (y^3)^{(-2)}$$
$$\frac{7x^9}{y^{10}}$$

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

$$\frac{3x^8 \times y^{(-2)} (x^4 \times y^4)^3}{7 \times y^{(-1)} (x^2)^4}$$
$$\frac{3}{7} x^{12} y^{11}$$

$$8 \times y^{(-2)} x^6 (x^{(-3)})^6 x^3 (y^4)^{(-1)}$$
$$\frac{8}{x^9 y^6}$$

$$8x^5 \times y^5 (x^5 \times y^3)^3$$
$$8x^{20} y^{14}$$

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

$$\frac{x^{(-3)} \times y^5 (x^6 \times y^6)^{(-3)}}{5 \times y^2 (x^4)^3}$$
$$\frac{1}{5x^{33} y^{15}}$$

$$9 \times y^5 x^{(-6)} (x^4)^4 x^{(-1)} (y^2)^3$$
$$9x^9 y^{11}$$

$$4x^{(-4)} \times y^{(-4)} (x^5 \times y^{(-12)})^{(-1)}$$
$$\frac{4y^8}{x^9}$$

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