



Simplification des expressions d'exposant (2 variables)

Nom: _____

Date: _____ Note: _____

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

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

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

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

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

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

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

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

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

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



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

$$\frac{9x^{28}}{y^6}$$

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

$$\frac{x}{3y^3}$$

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

$$9x^{18} y^6$$

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

$$x^{11} y^{24}$$

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

$$\frac{3}{2} x^{17} y^{13}$$

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

$$2x^{21} y^{21}$$

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

$$\frac{1}{x^{22} y^2}$$

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

$$\frac{3}{2x^8 y^{12}}$$

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

$$\frac{8}{7x^3 y^{15}}$$

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

$$\frac{4}{x^{11} y^{20}}$$