



Simplification des expressions d'exposant ( 2 variables )

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

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

$$3x^5 \times y^5(x^2 \times y^4)^6$$

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

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

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

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

$$\frac{8x^7 \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^{(-2)}}{9 \times y^{(-2)}(x^4)^2}$$

$$8x^{(-1)} \times y^{(-1)}(x^{(-1)} \times y^5)^6$$

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

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

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



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$$3x^5 \times y^5(x^2 \times y^4)^6$$
$$3x^{17}y^{29}$$

$$6x^4 \times y^4(x^5 \times y^{(-3)})^3$$
$$\frac{6x^{19}}{y^5}$$

$$\frac{9x^9 \times y^2(x^5 \times y^5)^{(-2)}}{6 \times y^2(x^{(-2)})^4}$$
$$\frac{3x^7}{2y^{10}}$$

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

$$\frac{8x^{(-5)} \times y^{(-4)}(x^5 \times y^5)^2}{1 \times y^{(-3)}(x^3)^2}$$
$$\frac{8y^9}{x}$$

$$\frac{8x^7 \times y^{(-6)}(x^{(-2)} \times y^{(-2)})^{(-2)}}{9 \times y^{(-2)}(x^4)^2}$$
$$\frac{8}{9}x^3$$

$$8x^{(-1)} \times y^{(-1)}(x^{(-1)} \times y^5)^6$$
$$\frac{8y^{29}}{x^7}$$

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

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

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