

Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: _____

Datum: _____ Ergebnis: _____

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

$$x^2 \times y^2(x^2 \times y^6)^2$$

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

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

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

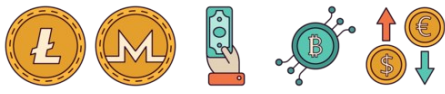
$$\frac{4x^{(-6)} \times y^4(x^{(-1)} \times y^{(-1)})^2}{6 \times y^{(-2)}(x^4)^4}$$

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

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

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

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



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

$$x^2 \times y^2 (x^2 \times y^6)^2$$
$$x^6 y^{14}$$

$$\frac{5x^4 \times y^5 (x^{(-2)} \times y^{(-2)})^2}{7 \times y^{(-3)} (x^4)^2}$$
$$\frac{5y^4}{7x^8}$$

$$6 \times y^{(-1)} x^6 (x^{(-3)})^2 x^2 (y^{(-3)})^2$$
$$\frac{6x^2}{y^7}$$

$$3x^4 \times y^4 (x^{(-2)} \times y^{(-12)})^3$$
$$\frac{3}{x^2 y^{32}}$$

$$\frac{4x^{(-6)} \times y^4 (x^{(-1)} \times y^{(-1)})^2}{6 \times y^{(-2)} (x^4)^4}$$
$$\frac{2y^4}{3x^{24}}$$

$$6x^5 \times y^5 (x^{(-2)} \times y^3)^5$$
$$\frac{6y^{20}}{x^5}$$

$$\frac{4x^{(-7)} \times y^4 (x^3 \times y^3)^4}{7 \times y^3 (x^{(-1)})^2}$$
$$\frac{4}{7} x^7 y^{13}$$

$$\frac{4x^{(-6)} \times y^{(-1)} (x^{(-2)} \times y^{(-2)})^5}{9 \times y^{(-3)} (x^3)^3}$$
$$\frac{4}{9x^{25} y^8}$$

$$\frac{3x^{(-9)} \times y^5 (x^2 \times y^2)^2}{3 \times y^{(-1)} (x^4)^{(-2)}}$$
$$x^3 y^{10}$$