



Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: _____

Datum: _____ Ergebnis: _____

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

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

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

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

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

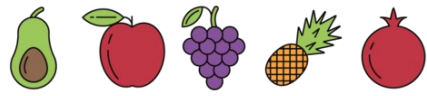
$$2 \times y^2 x^6 (x^4)^6 x^2 (y^{(-2)})^2$$

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

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

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

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



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$$x^2 \times y^2 (x^2 \times y^{(-12)})^4$$
$$\frac{x^{10}}{y^{46}}$$

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

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

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

$$\frac{4x^5 \times y^{(-6)} (x^4 \times y^4)^{(-2)}}{5 \times y^{(-1)} (x^4)^{(-1)}}$$
$$\frac{4x}{5y^{13}}$$

$$2 \times y^2 x^6 (x^4)^6 x^2 (y^{(-2)})^2$$
$$\frac{2x^{32}}{y^2}$$

$$\frac{7x^{(-9)} \times y^{(-6)} (x^{(-2)} \times y^{(-2)})^5}{3 \times y^{(-3)} (x^4)^3}$$
$$\frac{7}{3x^{31}y^{13}}$$

$$7x^6 \times y^6 (x^{(-3)} \times y^5)^{(-2)}$$
$$\frac{7x^{12}}{y^4}$$

$$2x^6 \times y^6 (x^3 \times y^{(-3)})^4$$
$$\frac{2x^{18}}{y^6}$$

$$\frac{x^7 \times y^{(-3)} (x^2 \times y^2)^{(-2)}}{4 \times y^{(-1)} (x^{(-2)})^2}$$
$$\frac{x^7}{4y^6}$$