

Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: _____

Datum: _____ Ergebnis: _____

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

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

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

$$7x^{(-1)} \times y^{(-1)} (x^{(-1)} \times y^{(-12)})^3$$

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

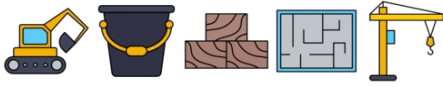
$$2x^{(-6)} \times y^{(-6)} (x^4 \times y^6)^2$$

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

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

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

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



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

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

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

$$7x^{(-1)} \times y^{(-1)} (x^{(-1)} \times y^{(-12)})^3$$
$$\frac{7}{x^4 y^{37}}$$

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

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

$$\frac{8x^{(-9)} \times y^{(-3)} (x^5 \times y^5)^{(-2)}}{2 \times y^3 (x^{(-1)})^2}$$
$$\frac{4}{x^{17} y^{16}}$$

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

$$4x^{(-2)} \times y^{(-2)} (x^4 \times y^{(-2)})^4$$
$$\frac{4x^{14}}{y^{10}}$$

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