



Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: _____

Datum: _____ Ergebnis: _____

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

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

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

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

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

$$7x^5 \times y^5 (x^6 \times y^6)^6$$

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

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

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

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



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

$$\frac{3x^{(-4)} \times y^4 (x^4 \times y^4)^{(-3)}}{4 \times y^2 (x^4)^{(-1)}}$$
$$\frac{3}{4x^{12}y^{10}}$$

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

$$\frac{5x^{(-8)} \times y^6 (x^4 \times y^4)^4}{1 \times y^{(-1)} (x^{(-2)})^2}$$
$$5x^{12}y^{23}$$

$$6 \times y^{(-2)} x^5 (x^4)^6 x^3 (y^4)^{(-2)}$$
$$\frac{6x^{32}}{y^{10}}$$

$$7x^5 \times y^5 (x^6 \times y^6)^6$$
$$7x^{41}y^{41}$$

$$8x^{(-3)} \times y^{(-3)} (x^5 \times y^6)^4$$
$$8x^{17}y^{21}$$

$$\frac{7x^{(-5)} \times y^5 (x^{(-2)} \times y^{(-2)})^2}{6 \times y^{(-3)} (x^4)^2}$$
$$\frac{7y^4}{6x^{17}}$$

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

$$4x^2 \times y^2 (x^5 \times y^{(-2)})^5$$
$$\frac{4x^{27}}{y^8}$$