



Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: _____

Datum: _____ Ergebnis: _____

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

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

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

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

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

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

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

$$7x^{(-3)} \times y^{(-3)} (x^{(-1)} \times y^5)^5$$

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

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



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

$$2x^{(-6)} \times y^{(-6)}(x^6 \times y^3)^{(-1)}$$
$$\frac{2}{x^{12}y^9}$$

$$\frac{6x^{(-6)} \times y^4(x^4 \times y^4)^{(-3)}}{1 \times y^2(x^{(-1)})^2}$$
$$\frac{6}{x^{16}y^{10}}$$

$$6x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^6)^2$$
$$\frac{6y^7}{x^7}$$

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

$$3 \times y^4x^6(x^6)^{(-3)}x^{(-1)}(y^{(-3)})^5$$
$$\frac{3}{x^{13}y^{11}}$$

$$6x^2 \times y^2(x^3 \times y^{(-12)})^4$$
$$\frac{6x^{14}}{y^{46}}$$

$$7x^{(-3)} \times y^{(-3)}(x^{(-1)} \times y^5)^5$$
$$\frac{7y^{22}}{x^8}$$

$$9 \times y^4x^5(x^5)^2x^{(-3)}(y^{(-1)})^3$$
$$9x^{12}y$$

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