



## Vereinfachung von Exponentenausdrücken (2 Variablen)

Name: \_\_\_\_\_

Datum: \_\_\_\_\_ Ergebnis: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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



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$$4x^{(-3)} \times y^{(-3)}(x^2 \times y^6)^3$$
$$4x^3y^{15}$$

$$5 \times y^{(-1)}x^{(-6)}(x^6)^{(-3)}x^2(y^4)^{(-1)}$$
$$\frac{5}{x^{22}y^5}$$

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

$$\frac{x^{(-1)} \times y^4(x^{(-1)} \times y^{(-1)})^2}{8 \times y^{(-1)}(x^4)^2}$$
$$\frac{y^3}{8x^{11}}$$

$$7x^{(-4)} \times y^{(-4)}(x^3 \times y^6)^{(-1)}$$
$$\frac{7}{x^7y^{10}}$$

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

$$8 \times y^{(-3)}x^{(-2)}(x^{(-2)})^6x^{(-2)}(y^3)^3$$
$$\frac{8y^6}{x^{16}}$$

$$\frac{6x^{(-1)} \times y^4(x^5 \times y^5)^3}{1 \times y^{(-1)}(x^{(-1)})^2}$$
$$6x^{16}y^{20}$$

$$2x^{(-3)} \times y^{(-3)}(x^6 \times y^6)^3$$
$$2x^{15}y^{15}$$

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