



## Vereinfachung von Exponentenausdrücken (2 Variablen)

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

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

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

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

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

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

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

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

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

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

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

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



## Vereinfachung von Exponentenausdrücken (2 Variablen)

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

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

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

$$5 \times y^3x^{(-3)}(x^6)^2x^{(-1)}(y^2)^3$$
$$5x^8y^9$$

$$6x^6 \times y^6(x^6 \times y^5)^6$$
$$6x^{42}y^{36}$$

$$3 \times y^{(-1)}x^{(-1)}(x^{(-3)})^6x^{(-2)}(y^2)^5$$
$$\frac{3y^9}{x^{21}}$$

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

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

$$\frac{2x^{(-6)} \times y^{(-2)}(x^5 \times y^5)^3}{1 \times y^{(-2)}(x^4)^{(-2)}}$$
$$2x^{17}y^{15}$$

$$3x^{(-5)} \times y^{(-5)}(x^{(-1)} \times y^4)^{(-2)}$$
$$\frac{3}{x^3y^{13}}$$

$$5x^3 \times y^3(x^5 \times y^{(-2)})^5$$
$$\frac{5x^{28}}{y^7}$$

$$9 \times y^{(-4)}x^{(-2)}(x^3)^5x^{(-2)}(y^{(-2)})^{(-2)}$$
$$9x^{11}$$