

$$6^3$$

Negative exponents

$$10^{-2} \quad 10^{-1} \quad 10^0 \quad 10^1 \quad 10^2 \quad 10^3$$

Simplifying an exponential expression

No negative exponents

Same base is written only once

No powers are raised to a power

Simplifying an exponential expression

Products are not raised to a power

Quotients are not raised to a power

Numerical coefficients have only 1 as a common factor in a quotient

Product of two powers with the same base

$$8^3 \cdot 8^9$$

Power raised to another power

$$(4^2)^3$$

Product raised to a power

$$(ab)^3$$

$$4^3 \cdot 4^3$$

$$6 \cdot x^2 \cdot x^{-3} \cdot x^4$$

$$(x^2)^4$$

$$xy \cdot (y^4)^3 \cdot (x^3)^2$$

$$-(2x^3)^4$$

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

$$(-2x^3)^4$$

$$-(3x^3)^4$$

$$(-3x^{-3})(5x^2)$$

$$(r^4 t)(r^3 t^{-5})$$