

Zero Exponent Property

Anything (except 0) raised to the zero power is equal to 1.

$$a^0 = 1$$

$$7^0$$

$$(-5)^0$$

$$(2x)^0$$

$$-(5)^0$$

$$2x^0$$

$$3ab^0$$

Negative Exponent Property

$$a^{-m} = \frac{1}{a^m}$$

$$3^{-2}$$

$$4x^{-1}$$

$$7a^{-4}b^3$$

$$\frac{2x^{-3}}{y^5}$$

Negative Exponent Property

$$\frac{1}{a^{-m}} = a^m$$

$$\frac{1}{2^{-4}}$$

$$\frac{3x^{-2}}{y^{-3}}$$

$$\frac{2a^{-4}b^3}{c^{-2}}$$

$$\frac{3w^2x^{-1}}{5y^3z^{-5}}$$

Simplify:

$$(4xy)^0$$

$$3a^2b^0c^3$$

$$4(xy)^0$$

$$-a^0b^0c^0$$

$$4xy^0$$

$$(-a^2b^3c^3)^0$$

Simplify:

$$(-4)^{-2}$$

$$-2^{-3}$$

$$-4^{-2}$$

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

Simplify:

$$2a^{-3}b^4c^{-5}$$

$$-x^{-1}y^{-3}$$

$$5x^0y^{-2}$$

Simplify:

$$\frac{2a^2b^{-4}}{4c^5d^{-2}}$$

$$\frac{3s^0t^{-3}}{2^{-2}r^5p^{-1}}$$

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$$a^0 = 1$$

Negative Exponent Property

$$a^{-m} = \frac{1}{a^m} \qquad \frac{1}{a^{-m}} = a^m$$