

## Zero Exponent

**Zero Power Rule:**  $A^0 = 1, A \neq 0$

Any number to the zero power, except 0, equals 1.

**Example:** Evaluate  $8^0 + 13$ .

$$\begin{aligned}8^0 + 13 &= 1 + 13, \\ &= 14.\end{aligned}$$

Evaluate the following expressions.

1.  $6^0 + 7$

2.  $912^0$

3.  $48 - 4^0$

4.  $\left(\frac{12^{15}}{12^3}\right)^0$

5.  $(8 - 2)^0$

6.  $3^0$

7.  $5^2 - 5^0$

8.  $11^0 + 41$

9.  $8^0 + 8^0$

10.  $13.02^0$

11.  $10,000^0$

12.  $(10^8 - 10^2)^0$

13.  $(1/3)^0$

14.  $(87\%)^0$

15.  $(x + y)^0$

16.  $\frac{5^4 \cdot 3^2 \cdot 5^7 \cdot 3^4 \cdot 2^5}{5^8 \cdot 3^6 \cdot 2^3}$

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Evaluate the following expressions.

1.  $6.80^0$

2.  $5^0 + 18^0$

3.  $(37\%)^0$

4.  $(\frac{3}{5})^0$

5.  $(5 - 4)^0$

6.  $p - q^0$

7.  $50^0$

8.  $(17 - 12)^0$

9.  $9.58^0$

10.  $(p - q)^0$

11.  $2.39^0$

12.  $20^0 - 12^0$

13.  $m + n^0$

14.  $50^0$

15.  $(3/4)^0$

16.  $(6 - 4)^0$

17.  $\frac{2^0}{3}$

18.  $(11 - 9)^0$

Simplify the expression  $\frac{x^6 y^4 x^5}{x^{11}}$

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**Example:** Evaluate  $8^0 + 13$ .

$$8^0 + 13 = 1 + 13, \\ = 14.$$

Evaluate the following expressions.

1.  $(4 - 3)^0$

2.  $7^0 - 7^0$

3.  $110^0$

4.  $\frac{5^0}{8}$

5.  $(\frac{5}{8})^0$

6.  $4^0 + 6^0$

7.  $(m+n)^0$

8.  $9.9^0$

9.  $20^0 + 6^0$

10.  $(3/5)^0$

11.  $(p-q)^0$

12.  $(\frac{2}{3})^0$

13.  $30^0$

14.  $(4 + 3)^0$

15.  $(14 - 3)^0$

16.  $8.22^0$

17.  $(20 - 14)^0$

18.  $33^0$

Simplify the expression  $\frac{x^6 y^4 x^5 y^3}{x^4 y^2}$

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**Example:** Evaluate  $8^0 + 13$ .

$$\begin{aligned}8^0 + 13 &= 1 + 13, \\ &= 14.\end{aligned}$$

Evaluate the following expressions.

1.  $100^0$

2.  $80\%^0$

3.  $(10 - 6)^0$

4.  $(27\%)^0$

5.  $104^0$

6.  $(\frac{6}{15})^0$

7.  $(3 - 2)^0$

8.  $66^0$

9.  $18 - 15^0$

10.  $(\frac{a}{b})^0$

11.  $(p^2 - q)^0$

12.  $5.37^0$

13.  $146^0$

14.  $107^0$

15.  $(16 - 2)^0$

16.  $50\%^0$

17.  $78^0$

18.  $3.55^0$

Simplify the expression  $\frac{x^6 y^4 x^5}{x^4 y^4} \frac{y^3 x y^2}{y^2 x^8}$