

Exponents

$$(-2)^4$$

↓

The base is -2.

$$(-2)(-2)(-2)(-2) = 16$$

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vs.

$$-2^4$$

↙ ↘

↓

The base is 2.

$$-(2 \cdot 2 \cdot 2 \cdot 2) = -16$$

The opposite of....

Evaluate each expression when $x = 7$.

1. $x^2 =$ _____ 2. $-(x)^1 =$ _____

3. $-(x)^3 =$ _____ 4. $-(x)^2 =$ _____

Evaluate each expression when $x = -4$.

5. $-(x)^2 =$ _____ 6. $x^3 =$ _____

7. $-(x)^3 =$ _____ 8. $x^2 =$ _____

Evaluate each expression when $x = 10$.

9. $x^3 =$ _____ 10. $x^2 =$ _____

11. $-(x)^3 =$ _____ 12. $=$ _____

Evaluate each expression when $x = -2$.

13. $x^3 =$ _____ 14. $x^2 =$ _____

15. $x^1 =$ _____ 16. $=$ _____

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The base is 2.

$$-(2 \cdot 2 \cdot 2 \cdot 2) = -16$$

↘

The opposite of....

Evaluate each expression when $x = 7$.

1. $x^2 = 49$ _____

2. $-(x)^1 = -7$ _____

3. $-(x)^3 = -343$ _____

4. $-(x)^2 = -49$ _____

Evaluate each expression when $x = -4$.

5. $-(x)^2 = -16$ _____

6. $x^3 = -64$ _____

7. $-(x)^3 = 64$ _____

8. $x^2 = 16$ _____

Evaluate each expression when $x = 10$.

9. $x^3 = 1,000$ _____

10. $x^2 = 100$ _____

11. $-(x)^3 = -1,000$ _____

12. $= 1,000$ _____

Evaluate each expression when $x = -2$.

13. $x^3 = -8$ _____

14. $x^2 = 4$ _____

15. $x^1 = -2$ _____

16. $= -8$ _____