

Exponents

$(-2)^4$ <p style="text-align: center;">↓</p> <p style="text-align: center;">The base is -2.</p> $(-2)(-2)(-2)(-2) = 16$ <p style="text-align: center; font-size: small;">www.worksheetsdirect.com</p>	<p><u>vs.</u></p>	-2^4 <p style="text-align: center;">↓</p> <p style="text-align: center;">The base is 2.</p> $-(2 \cdot 2 \cdot 2 \cdot 2) = -16$ <p style="text-align: center;">The opposite of....</p>
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Evaluate each expression when $x = 8$.

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

3. $-(x)^1 =$ _____ 4. $x^2 =$ _____

Evaluate each expression when $x = -9$.

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

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

Evaluate each expression when $x = 4$.

9. $-(x)^3 =$ _____ 10. $x^3 =$ _____

11. $-(x)^2 =$ _____ 12. $x^2 =$ _____

Evaluate each expression when $x = -2$.

13. $-(x)^2 =$ _____ 14. $-(x)^3 =$ _____

15. $x^3 =$ _____ 16. $x^2 =$ _____

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 $x = 8$.

1. $-(x)^2 = \underline{-64}$ 2. $-(x)^3 = \underline{-512}$

3. $-(x)^1 = \underline{-8}$ 4. $x^2 = \underline{64}$

Evaluate each expression when $x = -9$.

5. $-(x)^2 = \underline{-81}$ 6. $x^3 = \underline{-729}$

7. $-(x)^3 = \underline{729}$ 8. $x^2 = \underline{81}$

Evaluate each expression when $x = 4$.

9. $-(x)^3 = \underline{-64}$ 10. $x^3 = \underline{64}$

11. $-(x)^2 = \underline{-16}$ 12. $x^2 = \underline{16}$

Evaluate each expression when $x = -2$.

13. $-(x)^2 = \underline{-4}$ 14. $-(x)^3 = \underline{8}$

15. $x^3 = \underline{-8}$ 16. $x^2 = \underline{4}$