

Name: _____

Date: _____

Exponents

$(-2)^4$ ↓ The base is -2. $(-2)(-2)(-2)(-2) = 16$ <small>www.worksheetsdirect.com</small>	<u>vs.</u>	-2^4 ↓ The base is 2. $-(2 \cdot 2 \cdot 2 \cdot 2) = -16$ ↙ ↘ The opposite of....
--	------------	---

Evaluate each expression when $x = 6$.

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

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

Evaluate each expression when $x = -5$.

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

7. $=$ _____ 8. $x^2 =$ _____

Evaluate each expression when $x = 9$.

9. $-(x)^2 =$ _____ 10. $x^2 =$ _____

11. $x^3 =$ _____ 12. $=$ _____

Evaluate each expression when $x = -3$.

13. $-(x)^2 =$ _____ 14. $x^1 =$ _____

15. $x^2 =$ _____ 16. $-(x)^1 =$ _____

Exponents

$$(-2)^4$$

↓

The base is -2.

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

www.worksheetsdirect.com

vs.

$$-2^4$$

↙ ↓

The base is 2.

↘ ↙

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

The opposite of....

Evaluate each expression when $x = 6$.

1. $-(x)^3 = \underline{-216}$

2. $-(x)^2 = \underline{-36}$

3. $x^2 = \underline{36}$

4. $-(x)^1 = \underline{-6}$

Evaluate each expression when $x = -5$.

5. $-(x)^2 = \underline{-25}$

6. $-(x)^3 = \underline{125}$

7. $= \underline{-25}$

8. $x^2 = \underline{25}$

Evaluate each expression when $x = 9$.

9. $-(x)^2 = \underline{-81}$

10. $x^2 = \underline{81}$

11. $x^3 = \underline{729}$

12. $= \underline{729}$

Evaluate each expression when $x = -3$.

13. $-(x)^2 = \underline{-9}$

14. $x^1 = \underline{-3}$

15. $x^2 = \underline{9}$

16. $-(x)^1 = \underline{3}$