

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....
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Evaluate each expression when  $x = 9$ .

1.  $-(x)^2 =$  \_\_\_\_\_ 2.  $-(x)^1 =$  \_\_\_\_\_

3.  $-(x)^3 =$  \_\_\_\_\_ 4.  $x^2 =$  \_\_\_\_\_

Evaluate each expression when  $x = -7$ .

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

7.  $x^3 =$  \_\_\_\_\_ 8.  $=$  \_\_\_\_\_

Evaluate each expression when  $x = 8$ .

9.  $x^3 =$  \_\_\_\_\_ 10.  $x^2 =$  \_\_\_\_\_

11.  $-(x)^2 =$  \_\_\_\_\_ 12.  $=$  \_\_\_\_\_

Evaluate each expression when  $x = -4$ .

13.  $x^2 =$  \_\_\_\_\_ 14.  $x^3 =$  \_\_\_\_\_

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

# 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 style="font-size: 2em; color: green;">vs.</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  $x = 9$ .

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

2.  $-(x)^1 = \underline{-9}$

3.  $-(x)^3 = \underline{-729}$

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

Evaluate each expression when  $x = -7$ .

5.  $-(x)^3 = \underline{343}$

6.  $x^2 = \underline{49}$

7.  $x^3 = \underline{-343}$

8.  $= \underline{-343}$

Evaluate each expression when  $x = 8$ .

9.  $x^3 = \underline{512}$

10.  $x^2 = \underline{64}$

11.  $-(x)^2 = \underline{-64}$

12.  $= \underline{512}$

Evaluate each expression when  $x = -4$ .

13.  $x^2 = \underline{16}$

14.  $x^3 = \underline{-64}$

15.  $x^1 = \underline{-4}$

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