

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 $x = 3$.

1. $x^1 =$ _____ 2. $x^3 =$ _____

3. $x^2 =$ _____ 4. $=$ _____

Evaluate each expression when $x = -10$.

5. $x^3 =$ _____ 6. $x^2 =$ _____

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

Evaluate each expression when $x = 5$.

9. $-(x)^2 =$ _____ 10. $x^3 =$ _____

11. $-(x)^3 =$ _____ 12. $x^2 =$ _____

Evaluate each expression when $x = -8$.

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

15. $-(x)^3 =$ _____ 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><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 $x = 3$.

1. $x^1 = 3$ _____

2. $x^3 = 27$ _____

3. $x^2 = 9$ _____

4. $= 27$ _____

Evaluate each expression when $x = -10$.

5. $x^3 = -1,000$ _____

6. $x^2 = 100$ _____

7. $-(x)^2 = -100$ _____

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

Evaluate each expression when $x = 5$.

9. $-(x)^2 = -25$ _____

10. $x^3 = 125$ _____

11. $-(x)^3 = -125$ _____

12. $x^2 = 25$ _____

Evaluate each expression when $x = -8$.

13. $-(x)^1 = 8$ _____

14. $x^1 = -8$ _____

15. $-(x)^3 = 512$ _____

16. $x^2 = 64$ _____