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# Exponential functions equations worksheet

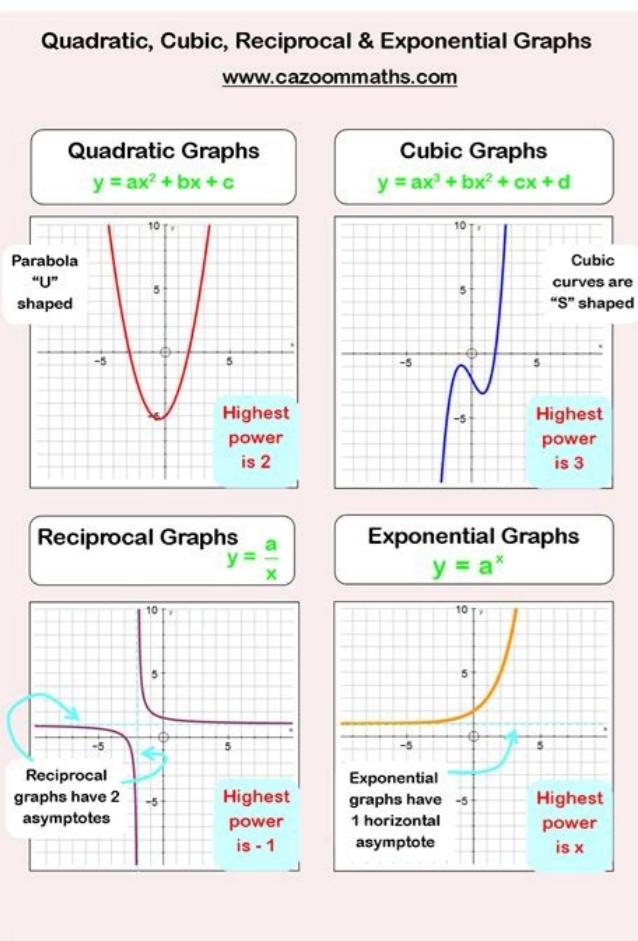
Name: KM Date: 4-15-15 Bell: 5

Unit 7: Exponential & Logarithmic Functions  
Homework 2: Solving Exponential Equations

\*\* This is a 2-page document! \*\*

<p><b>Directions:</b> Solve each equation using a common base.</p> <p>1. <math>9^{2x-7} = 9^{3x+2}</math>  <math>3x - 7 = 3x + 2</math>  <math>-7 = 2</math>  <math>x = -\frac{9}{2}</math>  <math>\boxed{x = 3}</math></p>	<p>2. <math>2^{x+4} \cdot 2^{x+6} = 2^{3x+1}</math></p>
<p>3. <math>8^{t+4} = 64</math>  <math>8^t = 4^3</math>  <math>2^{3t} = 2^3</math>  <math>3t = 3</math>  <math>t = 1</math>  <math>\boxed{t = 1}</math></p>	<p>4. <math>\frac{1}{5} = 5^{2x+3}</math></p>
<p>5. <math>\frac{1}{27} = 3^{3x-1}</math>  <math>3^{-3} = 3^{3x-1}</math>  <math>-3 = 3x - 1</math>  <math>-2 = 3x</math>  <math>x = -\frac{2}{3}</math>  <math>\boxed{x = -\frac{2}{3}}</math></p>	<p>6. <math>216 = 6^{2x-11}</math></p>
<p>7. <math>2^{3x-1} \cdot 2^{3x-7} = 16</math>  <math>2^{6x-8} = 2^4</math>  <math>6x - 8 = 4</math>  <math>6x = 12</math>  <math>x = 2</math>  <math>\boxed{x = 2}</math></p>	<p>8. <math>4^x \cdot 4^{2x-9} = 64</math></p>

**Unit 7 – Homework 2**



**f(x) = 6x - 1**

**Find f(5)**

**Original Problem**

$\downarrow$   
**f(x) = 6x - 1**

$\downarrow$   
**Find f(5)** ← Notice how 5 replaces the x in the function notation.

**f(5) = 6(5) - 1**

Substitute 5 for x in the original function.

**f(5) = 29**

Evaluate! This is your answer!

This answer means that if you substitute 5 for x, into this function, you will get an answer of 29! You "used" to write:  $y = 29$ . Now, in place of y, you will use  $f(5)$ .

\*\*(The 5 can be replaced with whatever number you substitute into the equation.)

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**% of Decrease of a Number**

**Problems**

**Work Space**

8 is what % less than 10?

Answer: \_\_\_\_\_

12 is what % less than 24?

Answer: \_\_\_\_\_

25 is what % less than 35?

Answer: \_\_\_\_\_

50 is what % less than 58?

Answer: \_\_\_\_\_

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