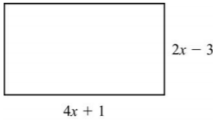
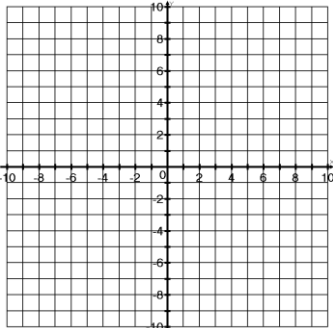
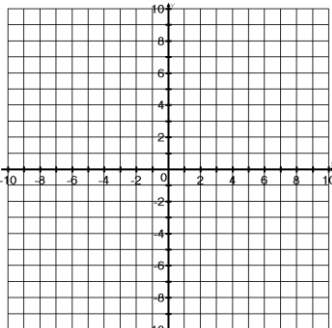
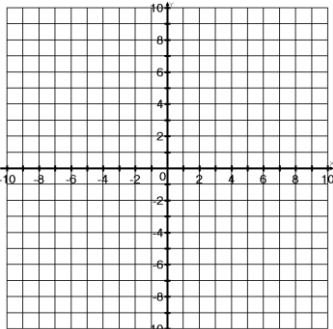
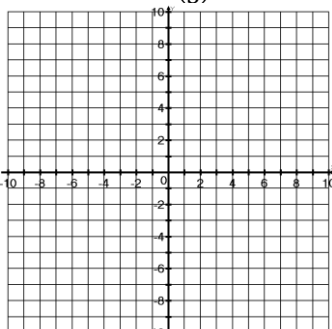
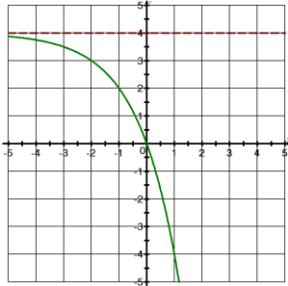
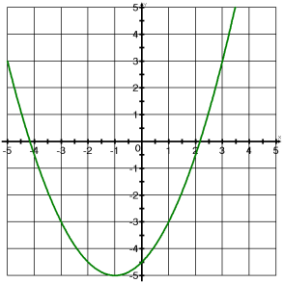


Name:

Day 1	Unit 1 Review	Day 2	Solving Review
1. $3\sqrt{125} + \sqrt{80}$	2. In problem #1, is it the sum of rational numbers, irrational numbers, or one of each? Is the sum rational or irrational?	1. $\frac{5-3x}{2} = -6$	2. $2(5x - 1) = 12 - 3x$
3. $(4\sqrt{50})(\sqrt{18})$	4. In problem #3, is it the product of rational numbers, irrational numbers, or one of each? Is the product rational or irrational?	3. $8(4 - x) = x + 32 - 9x$	4. $3(2 - 4x) < 6 + 2x$
5. Identify the parts of the expression $-3x^2 + 9x - 6$ Terms: Factors: Coefficients Constants:	6. The expression s^2 is used to calculate the area of a square, where s is the side length of the square. What does the expression $(8x)^2$ represent? The area of a square with side length ____. A. 8 C. $4x$ B. 16 D. $8x$	5. $2(x - 3)^2 - 6 = 18$	6. $-3(x + 5)^2 + 9 = -39$
7. Which expression has the same value as the expression $(8x^2 + 2x - 6) - (5x^2 - 3x + 2)$? A. $3x^2 - x - 4$ B. $3x^2 + 5x - 8$ C. $13x^2 - x - 8$ D. $13x^2 - 5x - 4$	8. What is the area of the patio as an expression? 	7. $4x^2 - 5x - 5 = 8x - 2x^2$	8. $3x^2 - 10x + 5 = 0$
9. Convert 653 meters to feet. Use $2.54 \text{ cm} = 1 \text{ in.}$	10. Jill swam 200 meters in 2 minutes 42 seconds. If each lap is 50 meters long, which is MOST LIKELY to be her time, in seconds per lap? A. 32 seconds B. 40 seconds C. 48 seconds D. 60 seconds	9. $5^{2x-1} - 9 = 116$	10. $\left(\frac{1}{9}\right)^x \geq 27^{2-x}$
Completion Stamp		Completion Stamp	

Day 3	Graphing Review	Day 4	Transformations & RoC
<p>1. Graph</p> $f(x) = -\frac{3}{4}x - 2$ 	<p>2. Graph</p> $g(x) = -(x + 1)^2 + 9$ 	<p>1. Describe the transformations of the function</p> $f(x) = -4(x + 6)^2 + 9$ <p>Parent Function: Transformations:</p>	<p>2. Find the rate of change of</p> $f(x) = -4(x + 6)^2 + 9$ <p>for $-1 < x < 2$</p>
<p>3. Find the characteristics of $f(x)$</p> <p>Domain: Range: X-Int: Y-Int: Int of Inc: Int of Dec: End Behavior: As $x \rightarrow \underline{\hspace{1cm}}$, $f(x) \rightarrow \underline{\hspace{1cm}}$ As $x \rightarrow \underline{\hspace{1cm}}$, $f(x) \rightarrow \underline{\hspace{1cm}}$</p>	<p>4. Find the characteristics of $g(x)$</p> <p>Vertex: AoS: D: R: Inc: Dec: Extrema: Max/Min Value: Y-Int: Zeroes: End: As $x \rightarrow \underline{\hspace{1cm}}$, $g(x) \rightarrow \underline{\hspace{1cm}}$ As $x \rightarrow \underline{\hspace{1cm}}$, $g(x) \rightarrow \underline{\hspace{1cm}}$</p>	<p>3. Describe the transformations of the function</p> $g(x) = \frac{5}{2}\left(\frac{1}{3}\right)^{x-3} - 5$ <p>Parent Function: Transformations:</p>	<p>4. Find the rate of change of</p> $g(x) = \frac{5}{2}\left(\frac{1}{3}\right)^{x-3} - 5$ <p>for $0 < x < 2$</p>
<p>5. Graph</p> $h(x) = 2x^2 - 8x$ 	<p>6. Graph</p> $m(x) = -2\left(\frac{1}{3}\right)^{x+2} + 4$ 	<p>5. Find the rate of change for $-2 < x < 1$</p> 	<p>6. Find the rate of change for $-3 < x < 3$</p> 
<p>7. Find the characteristics of $h(x)$</p> <p>Vertex: AoS: D: R: Inc: Dec: Extrema: Max/Min Value: Y-Int: Zeroes: End: As $x \rightarrow \underline{\hspace{1cm}}$, $h(x) \rightarrow \underline{\hspace{1cm}}$ As $x \rightarrow \underline{\hspace{1cm}}$, $h(x) \rightarrow \underline{\hspace{1cm}}$</p>	<p>8. Find the characteristics of $m(x)$</p> <p>D: R: Asymptote: X-Int: Y-Int: B <u> </u> 1 Growth or Decay? End: As $x \rightarrow \underline{\hspace{1cm}}$, $m(x) \rightarrow \underline{\hspace{1cm}}$ As $x \rightarrow \underline{\hspace{1cm}}$, $m(x) \rightarrow \underline{\hspace{1cm}}$</p>	<p>7. Find the rate of change for $-2 < x < 1$</p> $h(x) = 3x^2 - 2x + 5$	<p>8. Find the rate of change for $-3 < x < 0$</p> $m(x) = \left(\frac{1}{4}\right)^{x-1} + 2$
<p>Completion Stamp</p>		<p>Completion Stamp</p>	