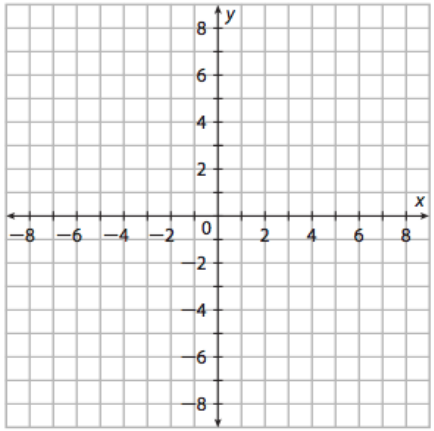
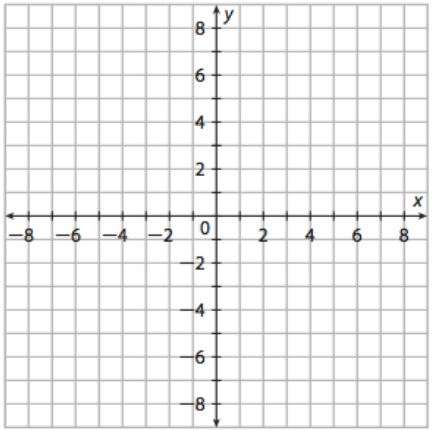
Graphing Review

Vertex Form	Intercept Form	Standard Form	Graph
		$f(x) = x^2 - 4x - 5$	
	*remember to factor out the GCF first	$f(x) = 2x^2 + 4x - 6$	

Use any method to solve. Explain why you chose the method that you chose.

1. $x^2 + 8x = -15$

2. $3x^2 - 16x - 7 = 5$

3. $x^2 + 8x = 28$

4. $x^2 - 8 = -2x$

5. $4x^2 + 8x + 7 = 4$

6. $2x^2 - 7x - 13 = -10$

7. Suppose $h(t) = -5t^2 + 10t + 3$ is the height of a diver above the water (in meters), t seconds after the diver leaves the springboard.

   a. How high above the water is the springboard? Explain how you know.

   b. When does the diver hit the water?

   c. At what time on the diver's descent toward the water is the diver again at the same height as the springboard?

   d. When does the diver reach the peak of the dive?