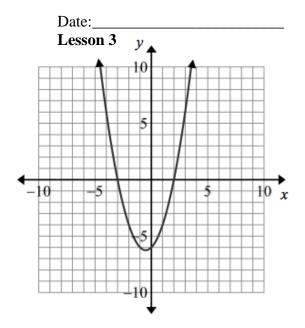
Name:_____ Unit 9

DO NOW: Which equation is represented the following graph?

- a) $y = -x^2 + x 6$
- b) $y = x^2 x + 6$
- c) $y = x^2 + x 6$
- d) $y = x^2 + x + 6$



AIM: WRITING A QUADRATIC EQUATION WHEN GIVEN THE ROOTS

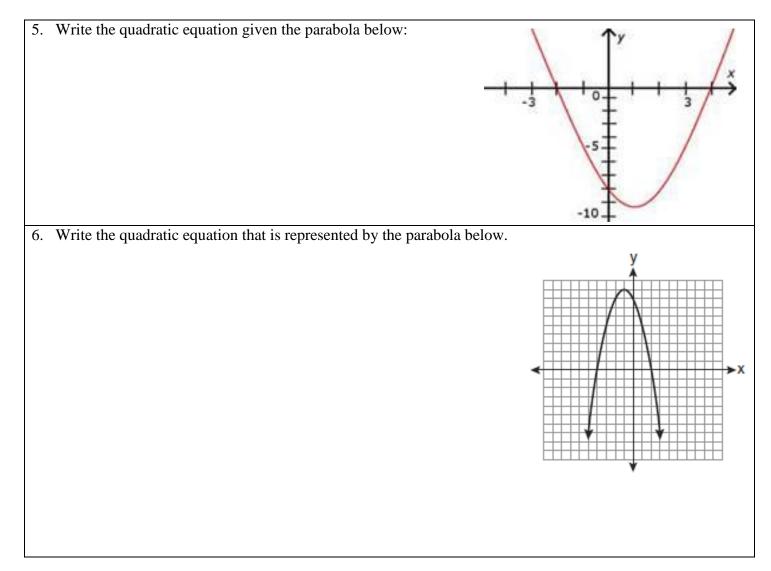
1. Write the quadratic equation whose roots are 5 & 7.

2. Write the quadratic equation whose roots are $\{-2, 6\}$.

3. Write the quadratic equation whose root is 9.

Steps for Writing a Quadratic Equation given the Roots:

1)	
2)	
3)	
4)	



7. If the equation $x^2 - kx - 36 = 0$ has x = 12 as one root, what is the value of k?

8. If the root is -3, using the equation $x^2 + x - k = 0$ what is the value of k?

b. Using the value of k, determine the other root.

9. If 2 and 3 are roots of the equation $x^2 + kx + 6 = 0$, what is the value of k?