Name:



a) 
$$f(x) = -x^2 + 10$$
 \_\_\_\_\_\_  
b)  $g(x) = (x + 4)^2 + 9$  \_\_\_\_\_\_  
c)  $y = -(x - 22)^2$  \_\_\_\_\_\_  
d)  $h(x) = (-x + 5)^2$  \_\_\_\_\_\_  
e)  $y = (x - 6)^2 + 2$  \_\_\_\_\_\_  
2. Write a quadratic equation whose graph is shifted down 7 units. \_\_\_\_\_\_  
3. Write a quadratic equation whose graph is shifted left 2 units. \_\_\_\_\_\_  
4. Write two quadratic equations that are reflections of each other. \_\_\_\_\_\_  
5. Given  $y = x^2 - 1$ , write an equation whose graph is reflected and shifted up 5 units. \_\_\_\_\_\_  
6. What is the vertex of the function  $y = (x - 6)^2 - 8$ ? \_\_\_\_\_\_