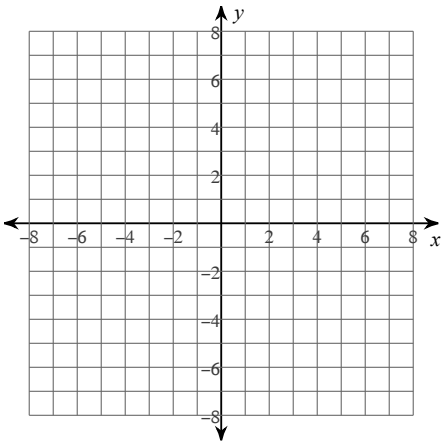
Secondary Math II Name_____

6-4 Transformations

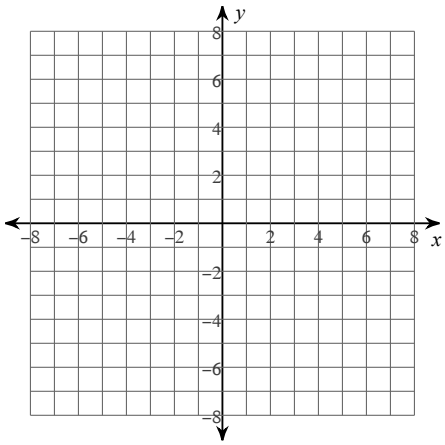
Date_____ Period____

Sketch the function using transformations. Describe the transformations and identify the vertex of each.

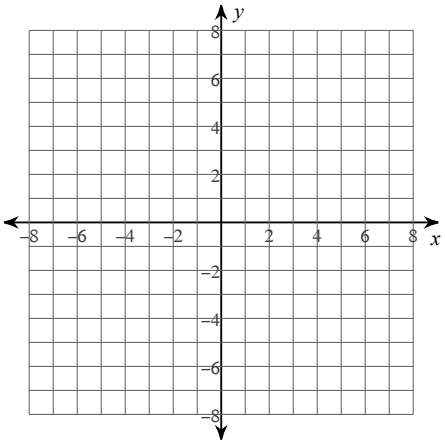
1) $f(x) = (x-4)^2 - 4$



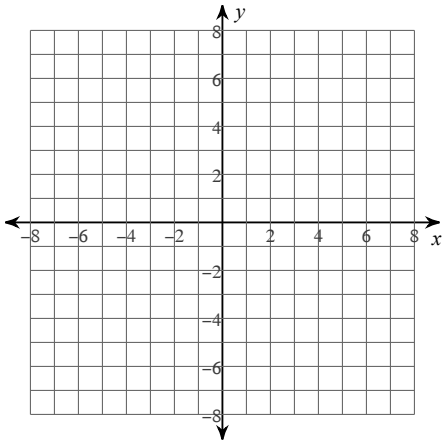
2) $f(x) = (x-2)^2 - 5$



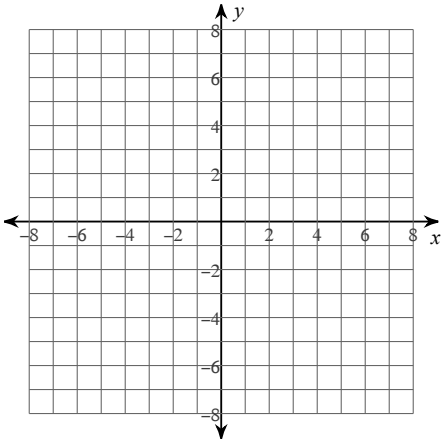
3) $f(x) = (x+6)^2 - 2$



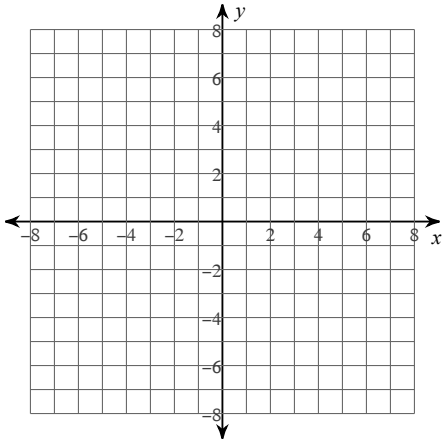
4) $f(x) = -2(x+2)^2$



5) $f(x) = 2(x+1)^2 - 2$



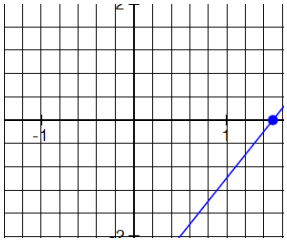
6) $f(x) = -(x+4)^2 - 4$

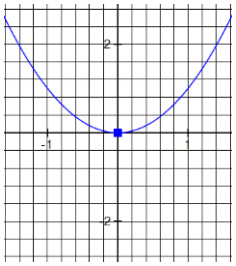


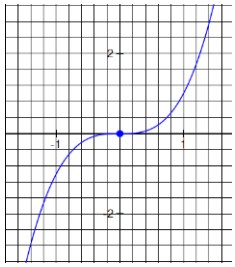
Secondary Math 2
3-3 Transformations of Graphs

Name_____
Period_____

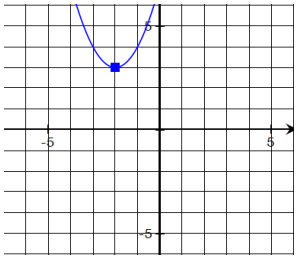
Label as Linear, Quadratic, or Neither

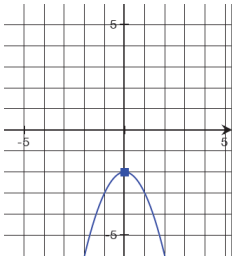
1. 

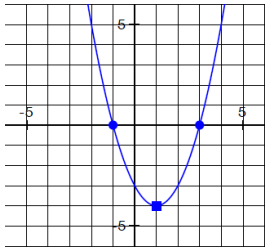
2. 

3. 

Identify the Vertex and write the function.

4. 

5. 

6. 

Vertex: _____ Vertex: _____ Vertex: _____

Function:_____ Function:_____ Function:_____

Identify the Vertex

7. $f(x)=(x+7)^2-3$

Vertex: _____

8. $g(x)=x^2+2$

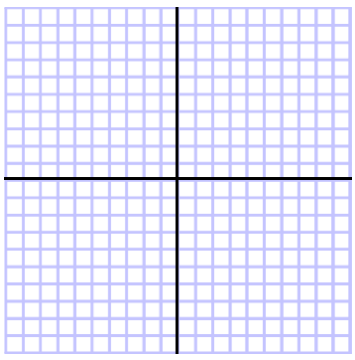
Vertex: _____

9. $h(x)=(x-6)^2$

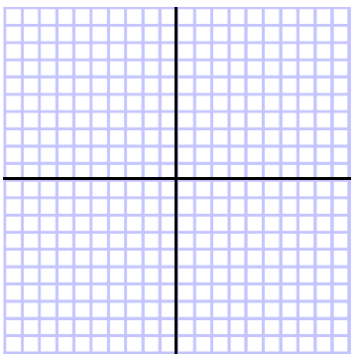
Vertex: _____

Graph the function

10. $f(x)=2(x-1)^2-2$



11. $g(x)=-(x+4)^2$



12. $h(x)=x^2-5$