

## Transformations WS

Directions:

State the vertex.

Graph.

Describe the transformation from the parent function  $y = x^2$  to the child function below.

1)  $y = (x - 5)^2 - 1$

2)  $y = 0.6(x + 1)^2$

3)  $y = 2x^2 + 3$

4)  $y = (x + 2)^2 + 4$

5)  $y = x^2 - 4$

6)  $y = -x^2 + 6$

7)  $y = (x - 3)^2 - 4$

8)  $y = -0.5x^2$

9)  $y = 3(x + 1)^2$

10)  $y = (x - 4)^2 + 3$