Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_

Graph the following function using a table. Determine the vertex of each function.

1) (2) (3)

4) (5) (6)

7) (8)

Use problems 1-8 to fill in the blanks.

9) If there is a negative sign in front of the absolute value, the graph is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(when compared to the parent graph)

10) The domain of an absolute value function is always \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) For , if a > 1, then the graph will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the parent graph.

12) For , if 0 < a < 1, then the graph will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the parent graph.

13) Without making a table, what is the vertex of