

6.8 Practice Worksheet Graphing Radical Functions HW Name: \_\_\_\_\_

Describe the transformation of each of the following square root functions from the parent function  $y = \sqrt{x}$ .

1.  $y = \sqrt{x+4} + 3$

2.  $y = \sqrt{x-1} - 8$

3.  $y = -2\sqrt{x-3} + 5$

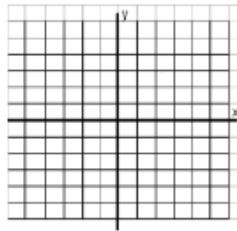
4.  $y = -\sqrt{x} - 9$

5.  $y = 3\sqrt{x+5}$

6.  $y = -\sqrt{x-8} + 1$

Graph the following square root functions. State the domain and range of each.

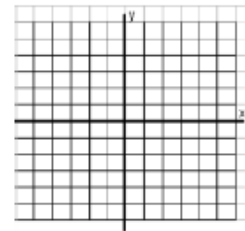
7.  $y = \sqrt{x+1} - 2$



D:

R:

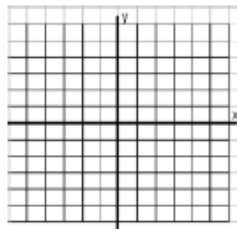
8.  $y = -\sqrt{x-2} - 3$



D:

R:

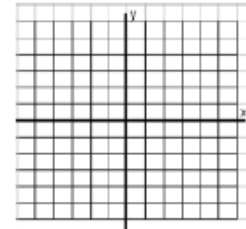
9.  $y = 4\sqrt{x-3} + 2$



D:

R:

10.  $y = -2\sqrt{x} + 4$



D:

R: