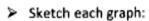
> Complete the table:

Function	Vertex	Horizontal Translation Left or Right	Vertical Translation Up or Down	Vertical Stretch or Compression	Reflection over x-axis	Domain	Range
$y = -\sqrt{x+4} - 1$							
$y = \sqrt{x - 3} + 2$							
$y = -3\sqrt{x+1} + 2$							
$y = \sqrt[3]{x} + 4$							
$y = \sqrt[3]{x+4} - 5$							
$y = -4\sqrt[3]{x+3}$							
$y = \frac{1}{2}\sqrt{x+3} - 4$							



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

Vertex:

Domain;

Range:

2

4

4

5

6

7

4

7

8

8

8

8

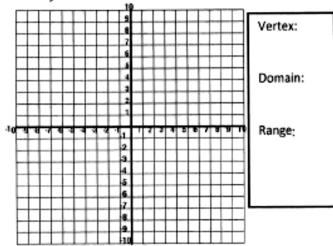
8

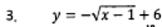
8

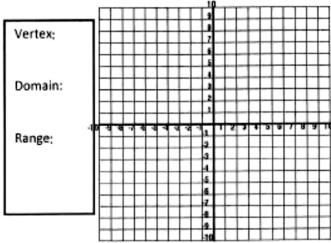
9

10

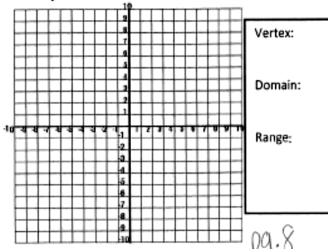
2. 
$$y = \sqrt{x+3} - 1$$



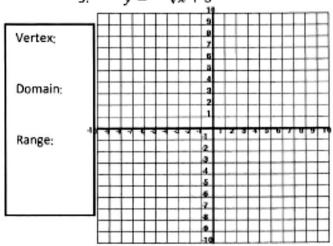




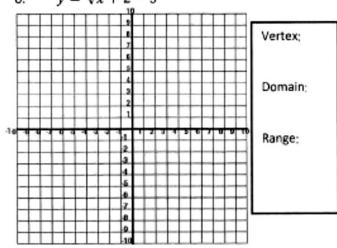
4. 
$$y = \sqrt[3]{x} - 3$$



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



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



- > Write the equation of the function:
  - 7. Write the equation of a cubed function that has been translated left four units and up six units,
  - Write the equation of a cube root function that has been translated left seven units and down ones unit.
  - Write the equation of a cube root function that has been translated left four units and up six units
    and reflected across the x axis.
  - Write the equation of a square root function that has been translated right three units and down two units.
  - 11. Write the equation of a square root function that has been translated left two units and reflected across the x axis.
  - 12. Write the equation of a square root function that has been translated up two units and reflected across the x axis and stretched by a factor of 2.