

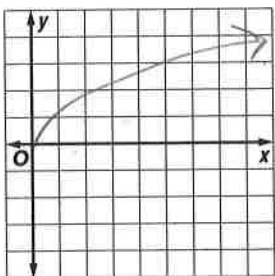
7-9

# Skills Practice

## Square Root Functions and Inequalities

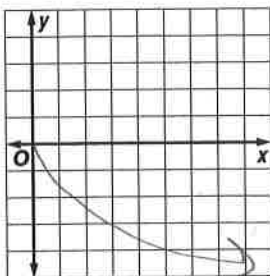
Graph each function. State the domain and range of each function.

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



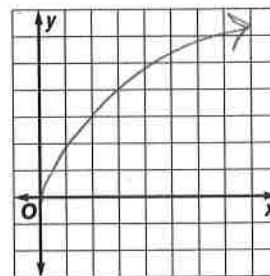
D:  $x \geq 0$ , R:  $y \geq 0$

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



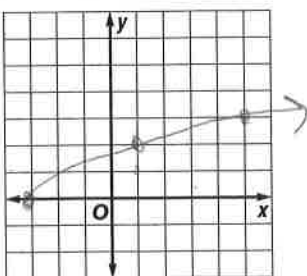
D:  $x \geq 0$ , R:  $y \leq 0$

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



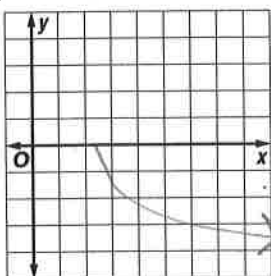
D:  $x \geq 0$   
R:  $y \geq 0$

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



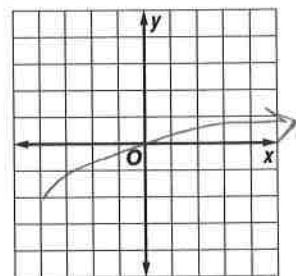
D:  $x \geq -3$   
R:  $y \geq 0$

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



D:  $x \geq 2.5$   
R:  $y \leq 0$

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

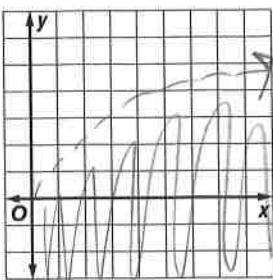


D:  $x \geq -4$   
R:  $y \geq -2$

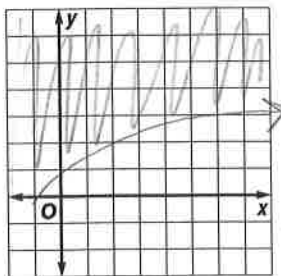
$x+4 \geq 0$   
 $x \geq -4$

Graph each inequality.

7.  $y < \sqrt{4x}$



8.  $y \geq \sqrt{x+1}$



9.  $y \leq \sqrt{4x-3}$

