SM3

Name________________________

5.3 Homework

Date________________ Period____

Identify the domain of each function.

1) $y = -4\sqrt{x-4}$

2) $y = \sqrt{9x} - 2$

3) $y = \sqrt{\dfrac{9x-36}{16}}$

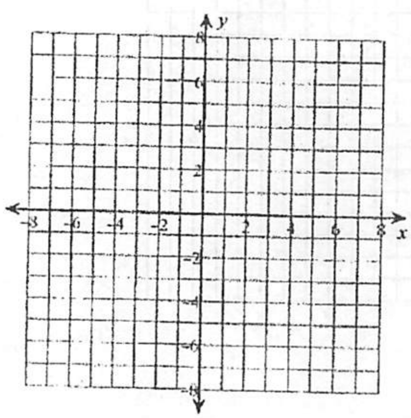
4) $y = -2\sqrt{x+2} + 2$

5) $y = -\dfrac{3}{4}\sqrt{x}$

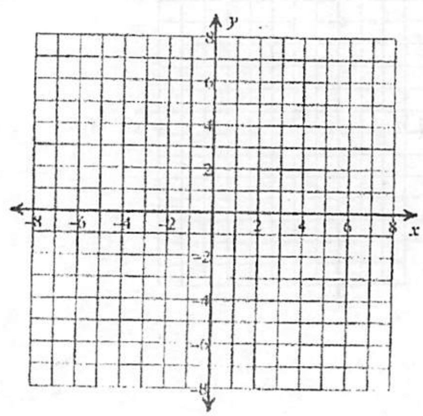
6) $y = -\dfrac{1}{2}\sqrt{x+1} + 3$

Identify the starting point, domain, and range of each. Then sketch the graph.

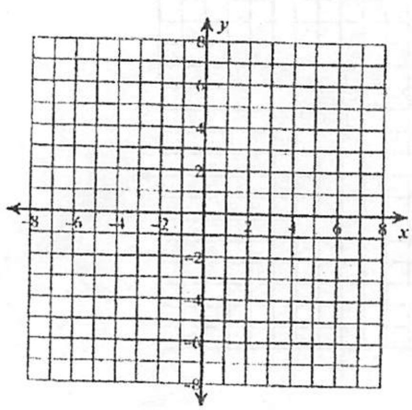
7) $y = \sqrt{x} + 1$



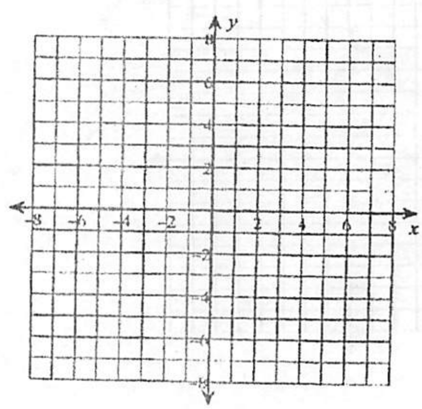
8) $y = \sqrt{x}$



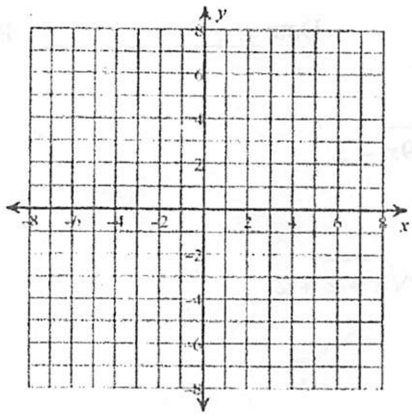
9) $y = -3\sqrt{x} + 5$



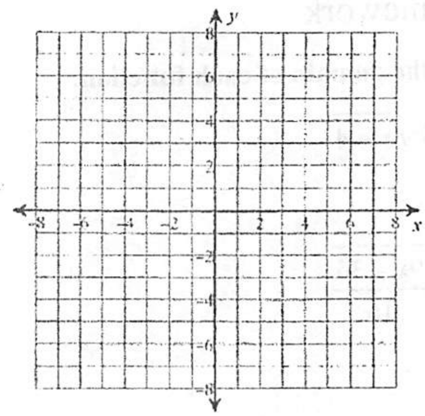
10) $y = 2 + \sqrt{x}$



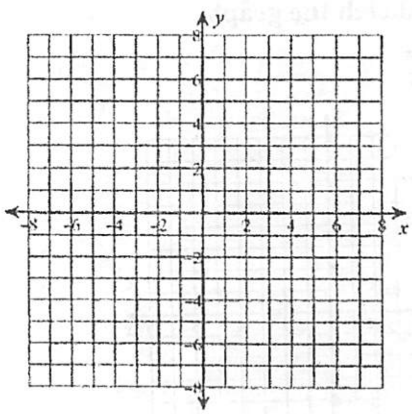
11) $y = \sqrt{x+2}$



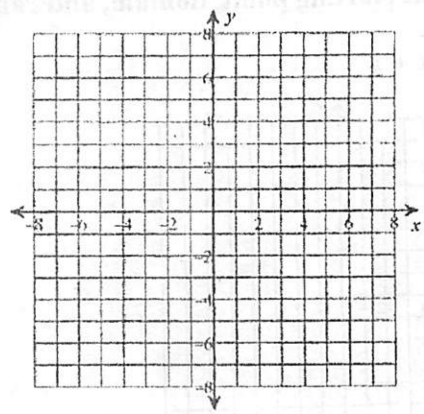
12) $y = \sqrt{4x}$



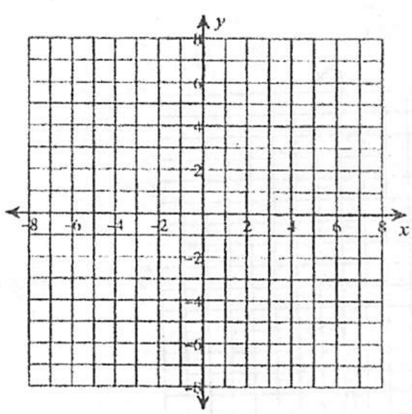
13) $y = -4\sqrt{x} + 3$



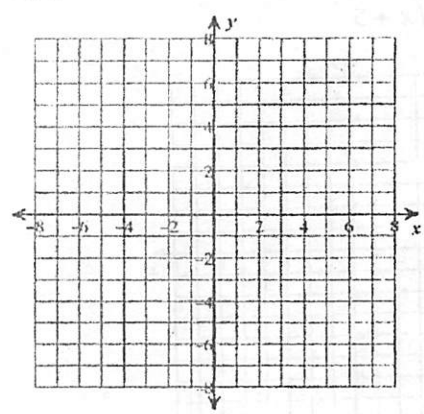
14) $y = \sqrt{x-1}$



15) $y = \sqrt{x-2}$



16) $y = \sqrt{x+4}$



SM3

Name Key

5.3 Homework

Date ____________ Period ____

Identify the domain of each function.

1) $y = -4\sqrt{x - 4}$

D: $[4, \infty)$

2) $y = \sqrt{9x} - 2$

D: $[0, \infty)$

3) $y = \sqrt{\dfrac{9x - 36}{16}}$

$\dfrac{9x-36}{16} \geq 0$

D: $[4, \infty)$

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

D: $[-2, \infty)$

5) $y = -\dfrac{3}{4}\sqrt{x}$

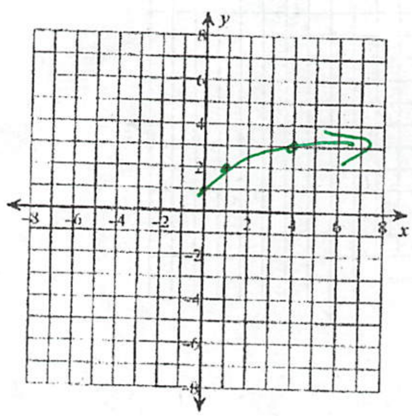
D: $[0, \infty)$

6) $y = -\dfrac{1}{2}\sqrt{x + 1} + 3$

D: $[-1, \infty)$

Identify the starting point, domain, and range of each. Then sketch the graph.

7) $y = \sqrt{x} + 1$

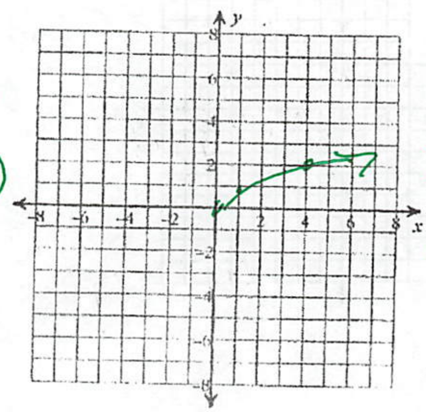


V(0,1)

D: $[0, \infty)$

R: $[1, \infty)$

8) $y = \sqrt{x}$

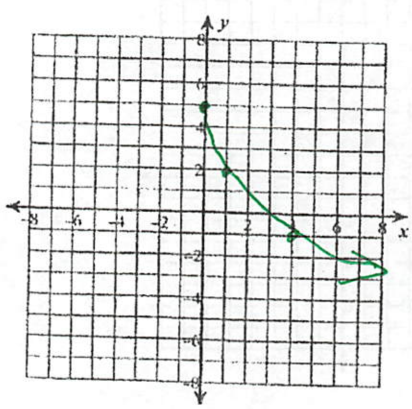


V (0,0)

D: $(0, \infty)$

R: $(0, \infty)$

9) $y = -3\sqrt{x} + 5$

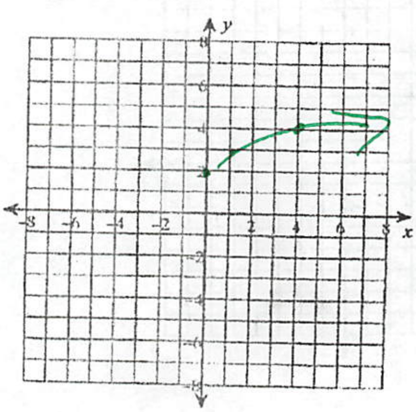


V (0,5)

D: $[0, \infty)$

R: $(-\infty, 5]$

10) $y = 2 + \sqrt{x}$

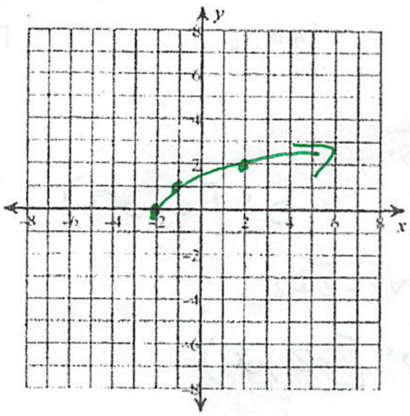


V (0, 2)

D: $[0, \infty)$

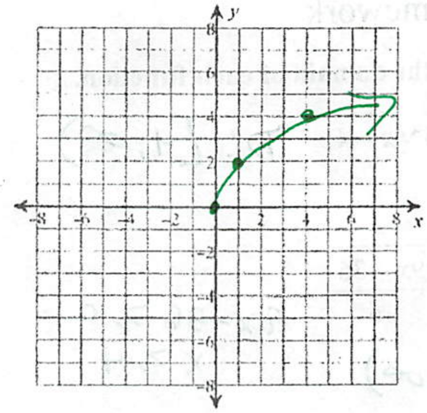
R: $[2, \infty)$

11) $y = \sqrt{x+2}$



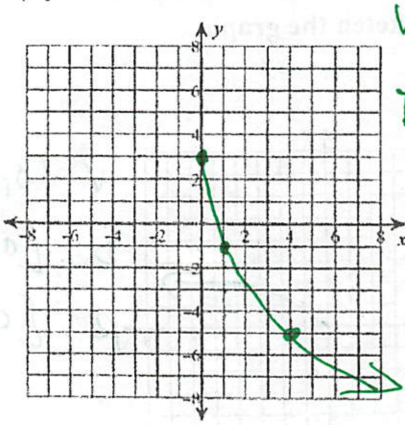
V(-2,0)
D: [-2,∞)
R: [0,∞)

12) $y = \sqrt{4x}$



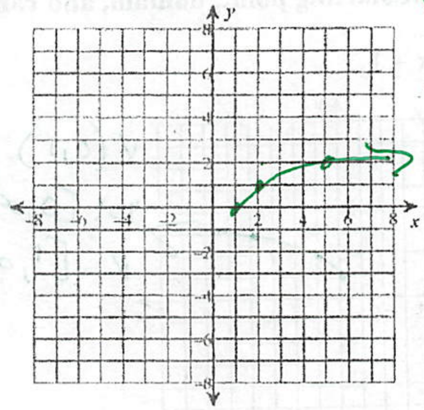
V(0,0)
D: [0,∞)
R: [0,∞)

13) $y = -4\sqrt{x} + 3$



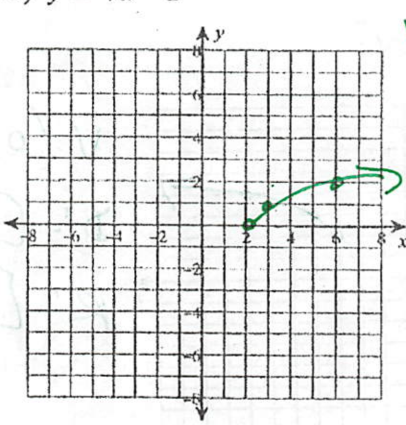
V(0,3)
D: [0,∞)
R: (-∞,3]

14) $y = \sqrt{x-1}$



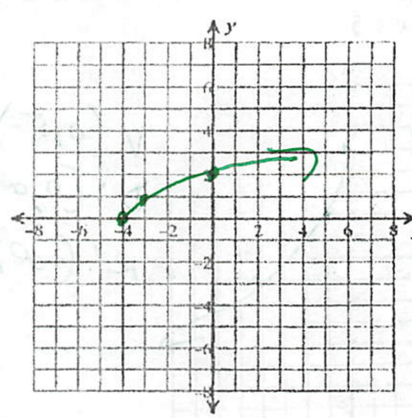
V(1,0)
D: [1,∞)
R: [0,∞)

15) $y = \sqrt{x-2}$



V(2,0)
D: [2,∞)
R: [0,∞)

16) $y = \sqrt{x+4}$



V(-4,0)
D: [-4,∞)
R: [0,∞)