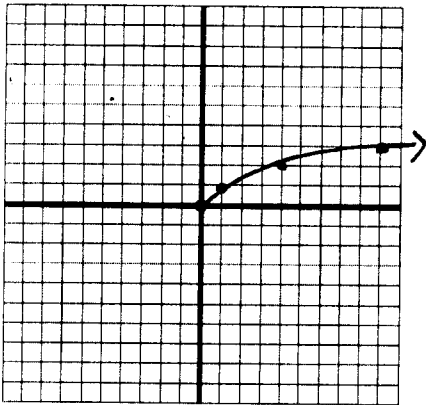


# 7-3 Square Root Functions HW

Name: Master E  
 Date: \_\_\_\_\_ Block \_\_\_\_\_

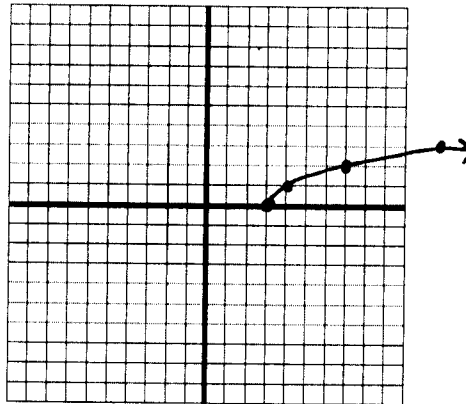
Graph each function without a calculator.  
 State the domain and range in interval notation.

1.  $y = \sqrt{x}$



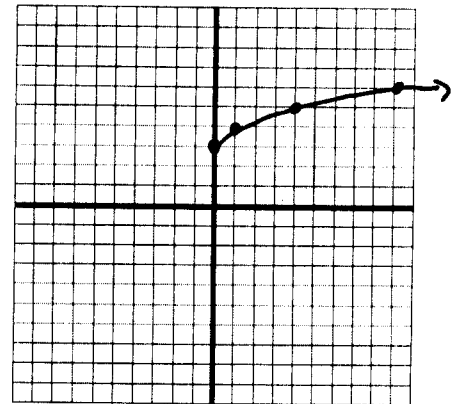
D:  $[0, \infty)$  R:  $[0, \infty)$

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



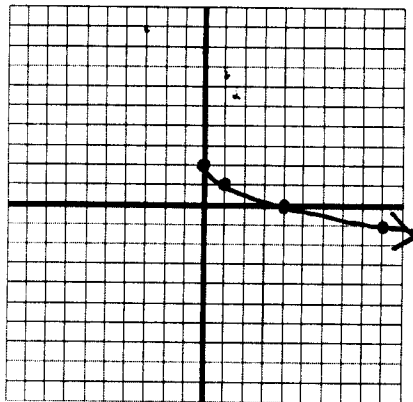
D:  $[3, \infty)$  R:  $[0, \infty)$

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



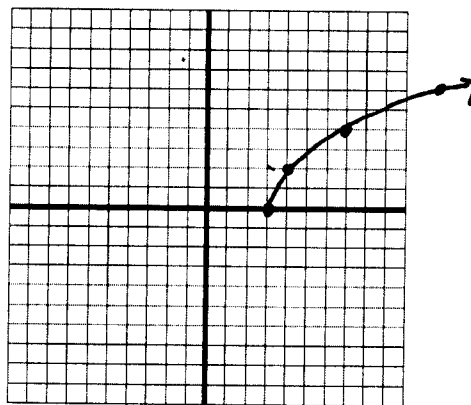
D:  $[0, \infty)$  R:  $[3, \infty)$

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



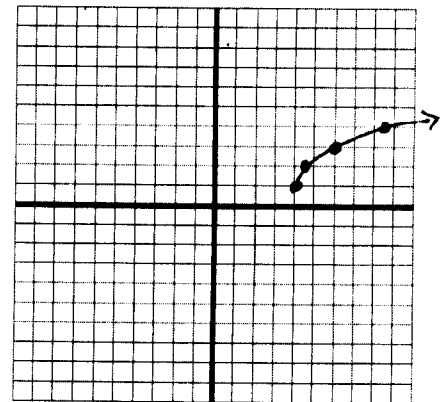
D:  $[0, \infty)$  R:  $(-\infty, 2]$

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



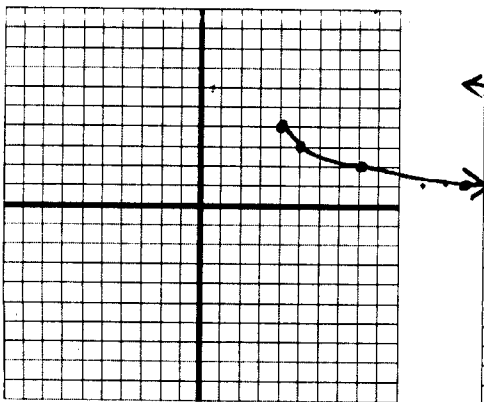
D:  $[3, \infty)$  R:  $[0, \infty)$

6.  $y = \sqrt{2x-8} + 1 = \sqrt{2(x-4)} + 1$



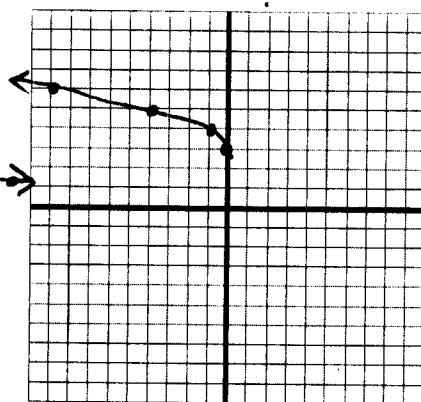
D:  $[4, \infty)$  R:  $[1, \infty)$

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



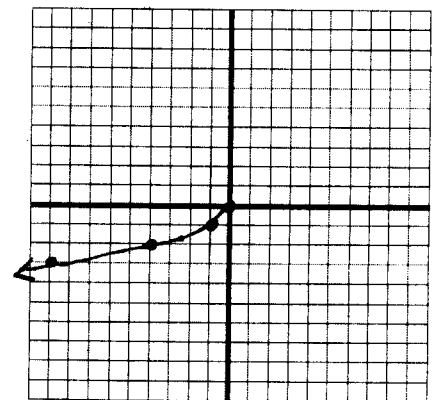
D:  $[4, \infty)$  R:  $(-\infty, 4]$

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



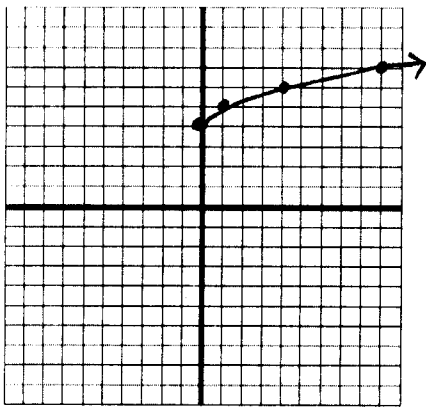
D:  $(-\infty, 0]$  R:  $[3, \infty)$

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



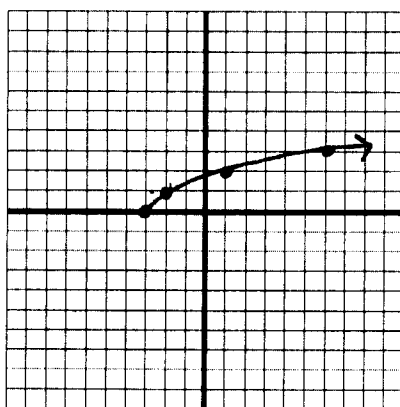
D:  $(-\infty, 0]$  R:  $(-\infty, 0]$

10.  $f(x) = \sqrt{x+4}$



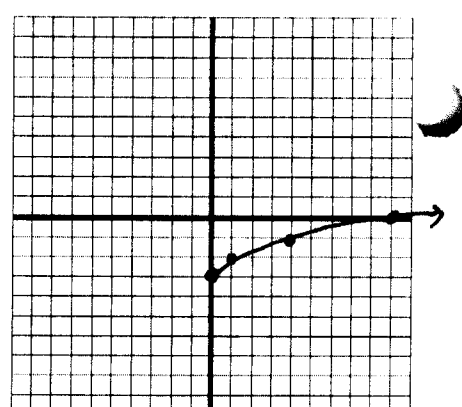
D:  $[0, \infty)$  R:  $[4, \infty)$

11.  $f(x) = \sqrt{x+3}$



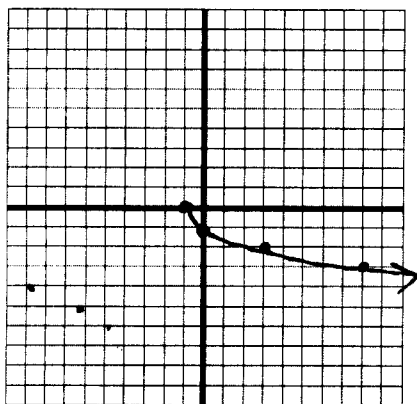
D:  $[-3, \infty)$  R:  $[0, \infty)$

12.  $f(x) = \sqrt{x-3}$



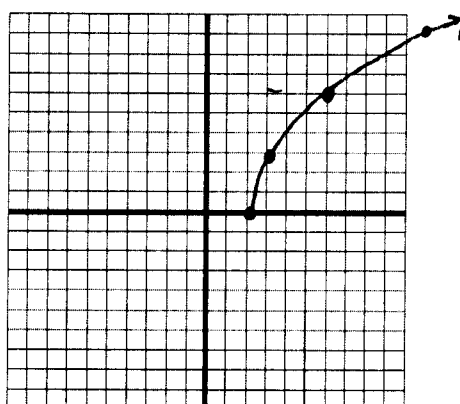
D:  $[0, \infty)$  R:  $[-3, \infty)$

13.  $f(x) = -\sqrt{x+1}$



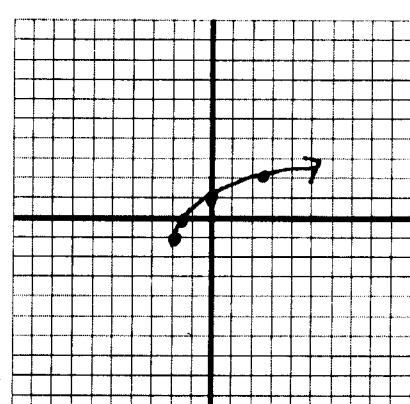
D:  $[-1, \infty)$  R:  $(-\infty, 0]$

14.  $f(x) = 3\sqrt{x-2}$



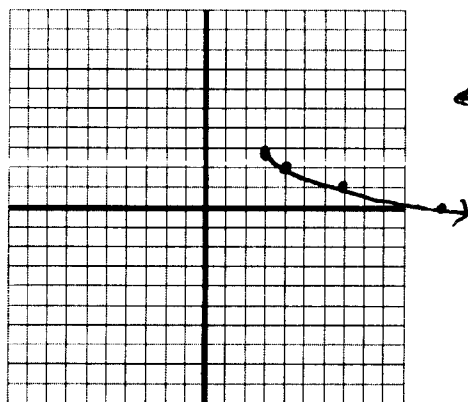
D:  $[2, \infty)$  R:  $[0, \infty)$

15.  $f(x) = \sqrt{2x+4} - 1$



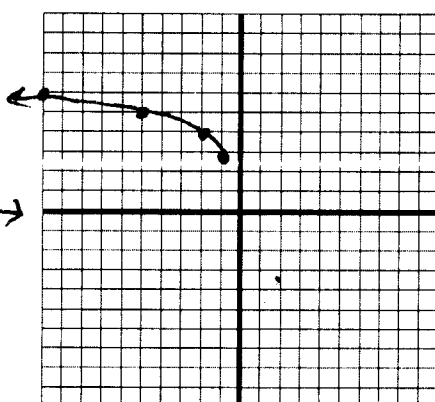
D:  $[-2, \infty)$  R:  $[-1, \infty)$

16.  $f(x) = -\sqrt{x-3} + 3$



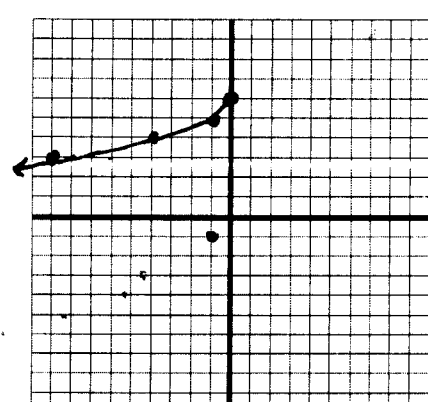
D:  $[3, \infty)$  R:  $(-\infty, 3]$

17.  $f(x) = \sqrt{-x-1} + 3$



D:  $(-\infty, -1]$  R:  $[3, \infty)$

18.  $f(x) = -\sqrt{-x} + 6$



D:  $(-\infty, 0]$  R:  $(-\infty, 6]$