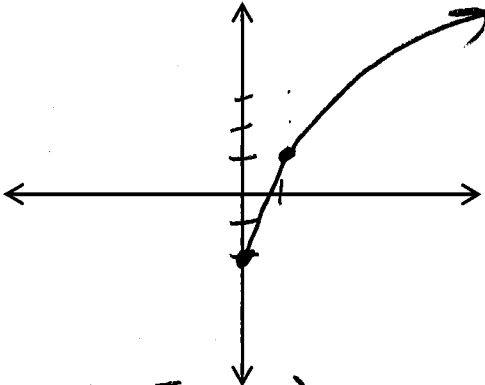


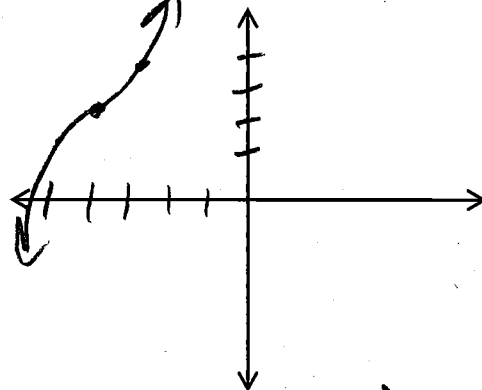
Graph the following. Then state the domain and range.

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



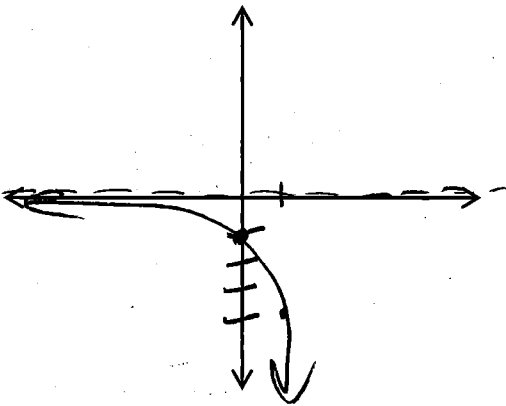
Domain: $[0, +\infty)$
 Range: $[-2, +\infty)$

2. $y = (x + 4)^3 + 3$



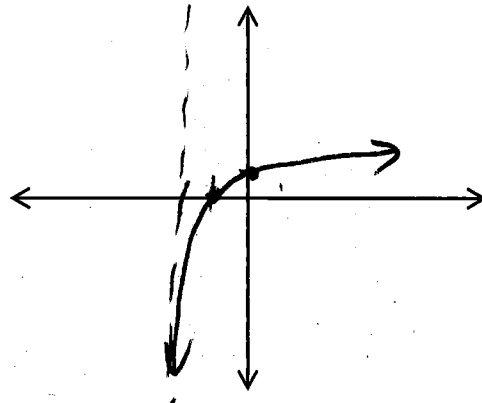
Domain: $(-\infty, +\infty)$
 Range: $(-\infty, +\infty)$

3. $y = -(4)^x$



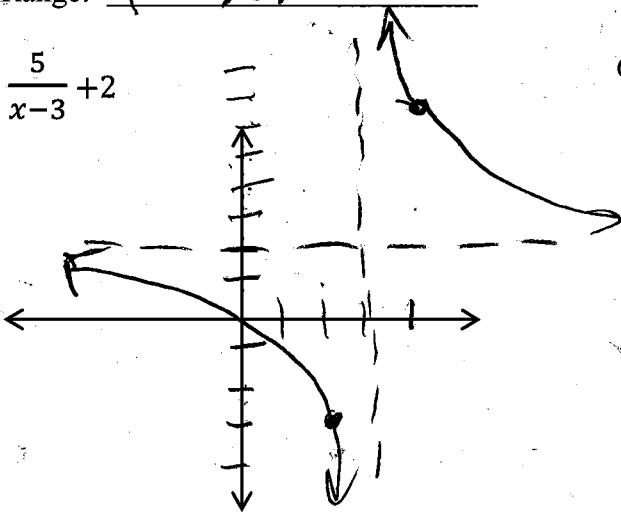
Domain: $(-\infty, +\infty)$
 Range: $(-\infty, 0)$

4. $y = \log_2(x + 2)$



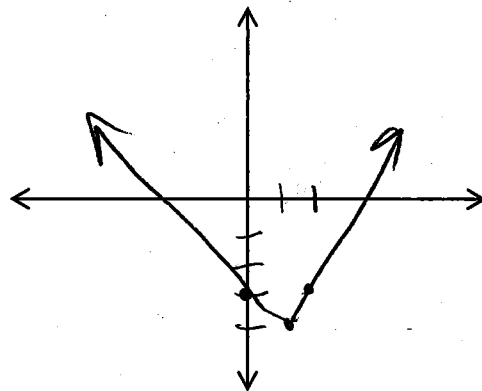
Domain: $(-2, +\infty)$
 Range: $(-\infty, +\infty)$

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



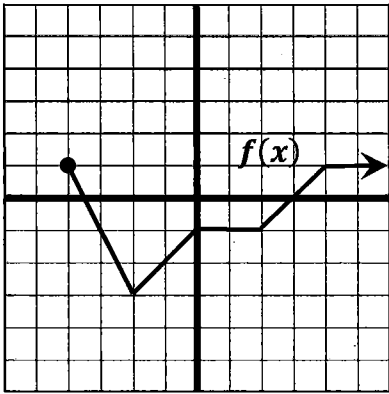
Domain: $(-\infty, 3) \cup (3, +\infty)$
 Range: $(-\infty, 2) \cup (2, +\infty)$

6. $y = |x - 1| - 4$

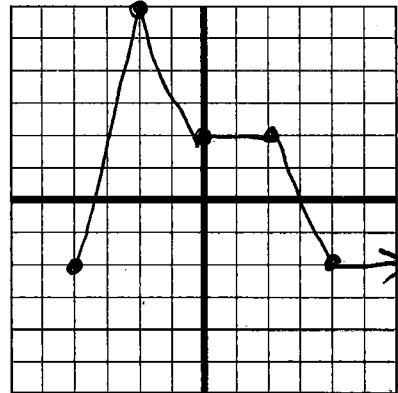


Domain: $(-\infty, +\infty)$
 Range: $[-4, +\infty)$

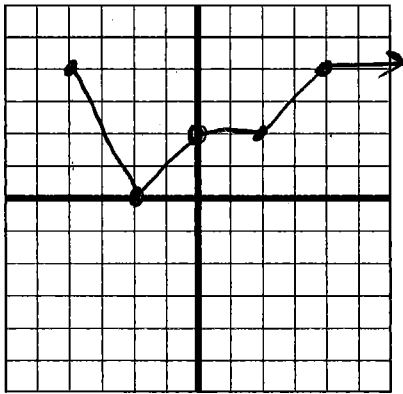
Use the graph of the function $f(x)$ below to graph the other functions



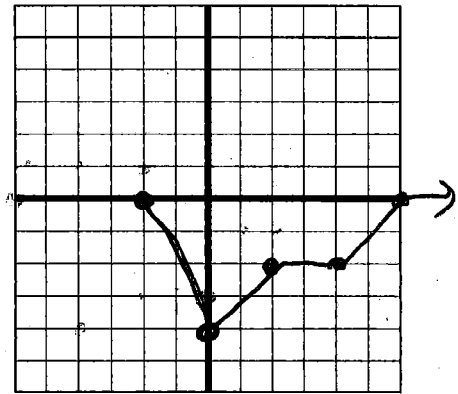
7. $g(x) = -2f(x)$



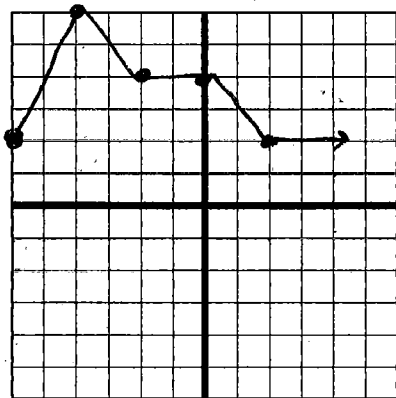
8. $h(x) = f(x) + 3$



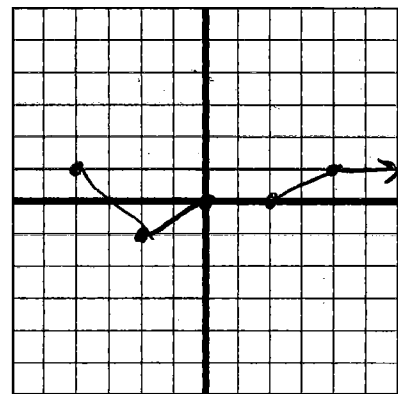
9. $k(x) = f(x - 2) - 1$



10. $m(x) = -f(x + 2) + 3$



11. $n(x) = \frac{1}{2}f(x) + \frac{1}{2}$



State the domain and range of the following functions from above.

12. Domain of $f(x)$: $[-4, +\infty)$

13. Domain of $n(x)$: $[-4, +\infty)$

Range of $f(x)$: $[-3, 1]$

Range of $n(x)$: $[-1, 1]$