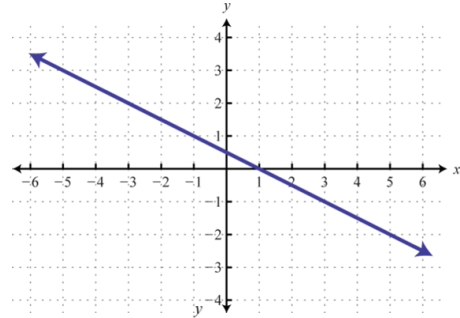# Domain and Range Assignment

Name: _____ Per: _____

Write the domain and range of each graph in the notation indicated below. Also, describe the end behavior.
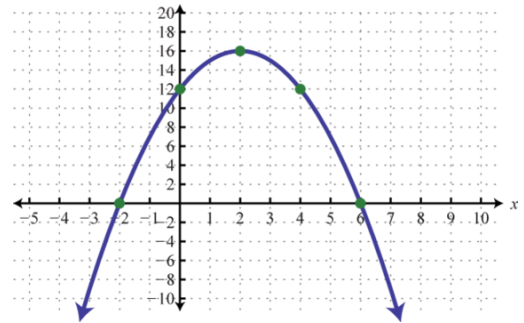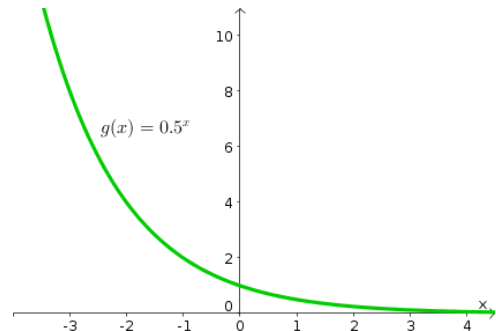
1) Interval notation:

    End behavior:
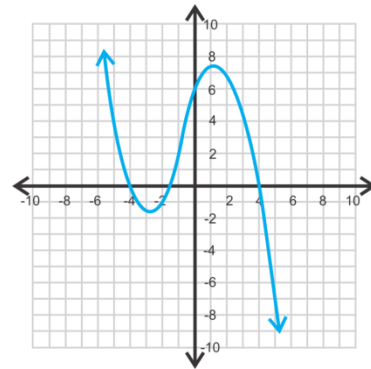
2) Set notation:

    End behavior:

3) Inequality notation:

    End behavior:

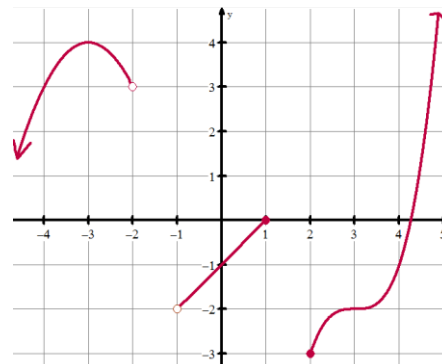$g(x) = 0.5^x$

4) Inequality notation:
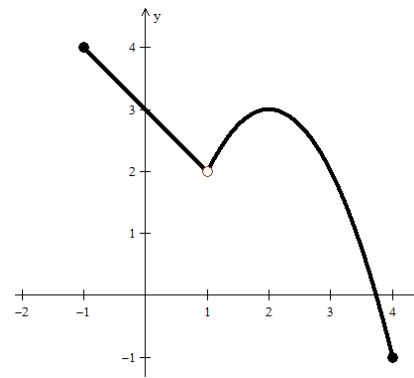

    End behavior:

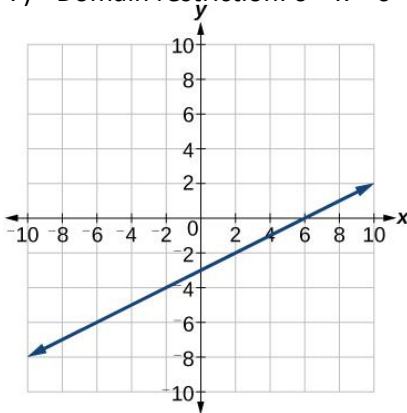5) Interval notation:

    End behavior:
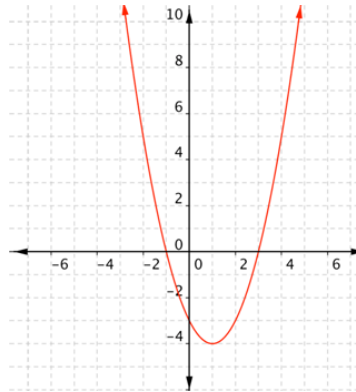
6) Interval notation:

   End behavior:

Use interval notation to write what the range of each graph would be if the domain were restricted as indicated below.
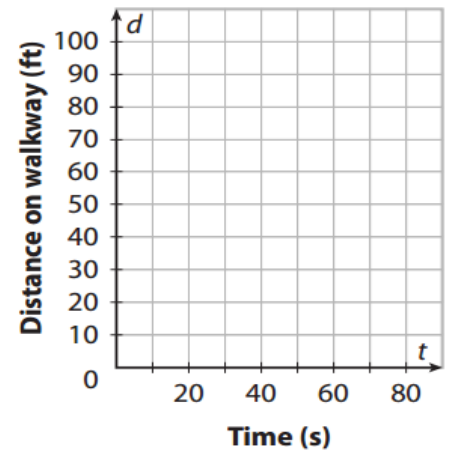
7) Domain restriction: $0 < x < 6$
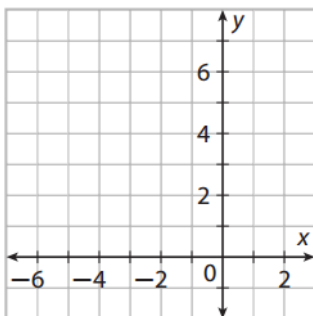

8) Domain restriction: $\{x \mid -1 \le x \le 3\}$

9) While standing on a moving walkway at an airport, you are carried forward 25 feet every 15 seconds for 1 minute. Write a function that models this situation. Determine the domain from the situation, graph the function, and identify the range. Use set notation for the domain and range.

For the given functions and restricted domains, draw the graph and identify the range using interval notation.

10) $f(x) = -\frac{1}{2}x + 2$ with domain $-6 \le x < 2$

11) $f(x) = \frac{2}{3}x - 1$ with domain $(-\infty, 3]$