- 1. For the function f(x) = 3x 5, find (and simplify when possible)
  - **a)** f(3) =

**b)** f(-4) =

**c)** f(t) =

**d)** f(x+1) =

**e)** f(-x) =

- **f)**  $f(x^2) =$
- **2.** For the function  $f(x) = \frac{3x^2 1}{x^2}$ , find (and simplify when possible)
  - **a)** f(2) =

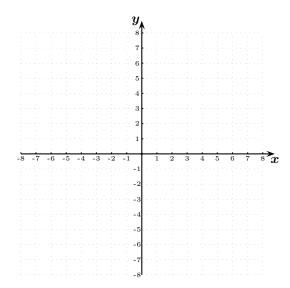
**b)** f(-1) =

**c)** f(r) =

**d)** f(x-1) =

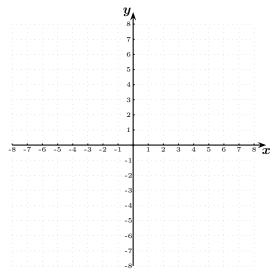
**e)** f(-x) =

- **f)**  $f(x^3) =$
- 3. Make a table of values (take, for example, the integers between -6 and 6; you may want to use a calculator) and graph the following functions in the axes provided.
- **a)**  $f(x) = \sqrt{x+3}$

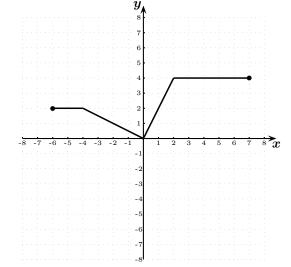


**b)** g(x) = |x|

(remember that |x| means 'absolute value of x')



- **4.** Use the given graph of the function g to answer the questions below.
  - **a)** Find g(-2) =
- **b)** Find q(0) =
- c) Find g(1) =
- **d)** Find g(-3) =
- e) Find g(4) =
- f) Find g(7) =

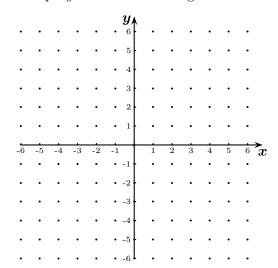


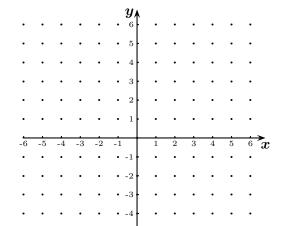
- g) Find the domain of g and write it in interval notation.
- **h)** Find the range of g and write it in interval notation.

**5.** Graph the following lines.

Graph y = x - 3 indicating at least two points.

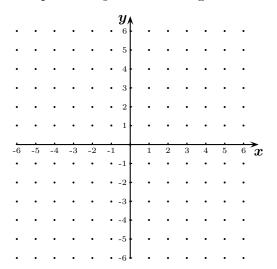
Graph y = -2x + 3 indicating at least two points.

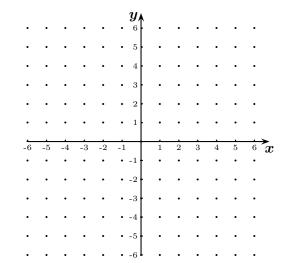




Graph 3x - 2y = 6 indicating at least two points.

Graph x = 3 indicating at least two points.





**6.** Find the equation of the line passing through the point (1,3) that is parallel to the line with equation 3x + 2y = 5.

7. Find the equation of the line passing through the point (-1,2) that is perpendicular to the line with equation 3x + 2y = 5.