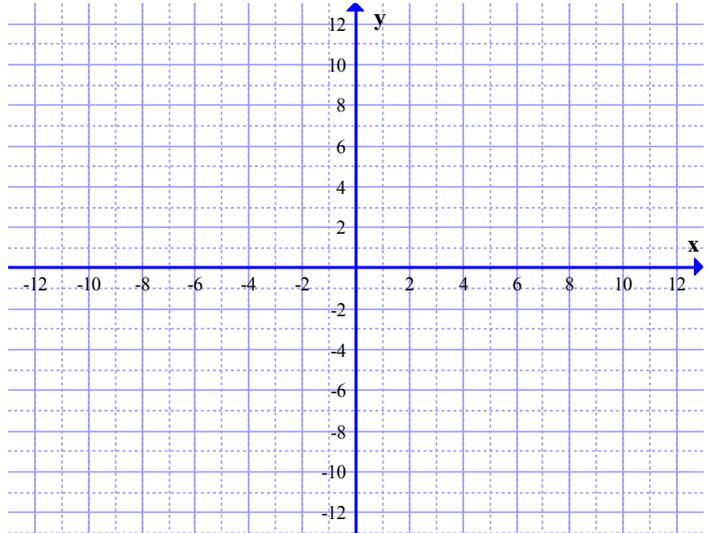


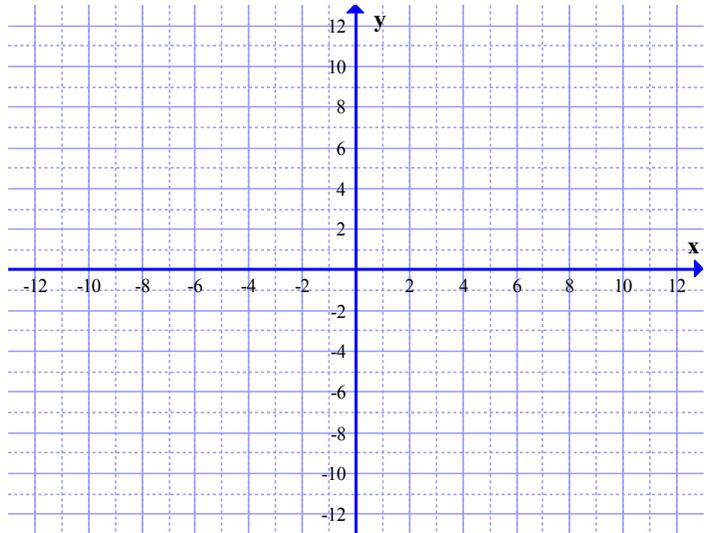
MAC1105 College Algebra  
3.3 Practice Problems

1. Graph the following functions using the plotting points method. State the domain and range of the function.

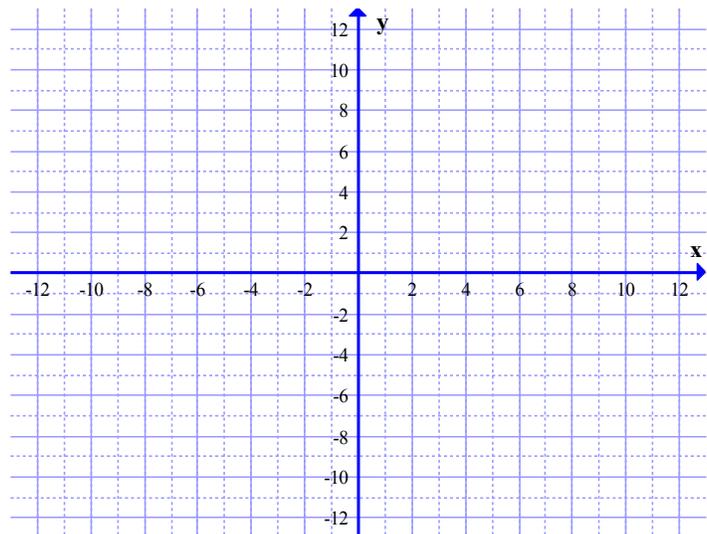
a.  $f(x) = \sqrt{x}$



b.  $g(x) = x^3$



c.  $h(x) = \frac{1}{x}$



2. Evaluate the Piecewise function.

$$f(x) = \begin{cases} 2x+3 & x \leq 4 \\ -x-2 & x > 4 \end{cases}$$

a.  $f(2)$

b.  $f(4)$

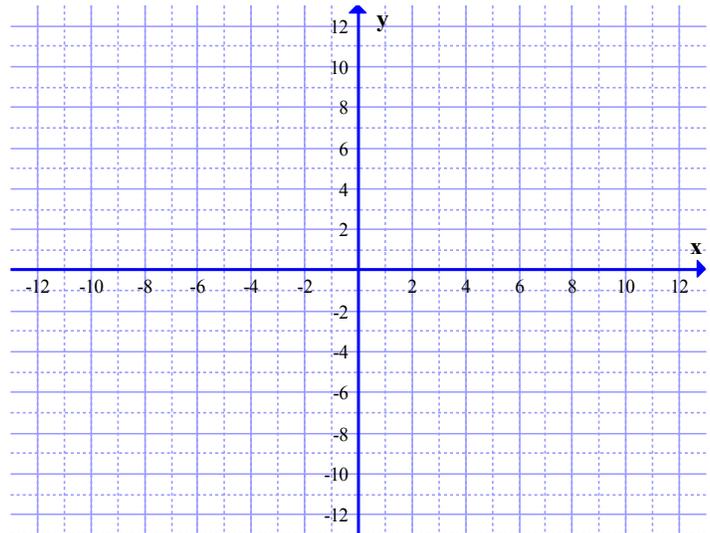
c.  $f(6)$

3.  $f(x) = \begin{cases} 2x+3 & x \leq 4 \\ -x-2 & x > 4 \end{cases}$

a. Find the domain for the function

b. Locate any intercepts.

c. Graph the function.



d. Based on the graph find the range.