Show all your work to receive credit and box or circle your final answers.

1) Construct a table of values, then graph each equation.
   
   a) \[ y = |x + 2| \]
   
   b) \[ y = x^2 - 1 \]

2) Graph the lines.
   
   a) \[ x = -1 \]
   
   b) \[ y = 2 \]

3) a) Find the x- and y-intercepts of the graph of the equation \( 3x - 2y = 8 \) using algebraic techniques.

   b) Graph the equation using the information from part a.

4) a) Find the slope and y-intercept for the equation \(-4x + 2y = 8\) using algebraic techniques.

   b) Graph the equation using the information from part a.

5) a) Find the slope of a line connecting the two points \((1, -2)\) and \((-4, 3)\).

   b) Find the slope of a line connecting the two points \((5, -2)\) and \((5, 7)\).

6) a) Find the slope of a line parallel to the line \( y = -5x + 7 \).

   b) Find the slope of a line perpendicular to the line \( y = \frac{2}{3}x - 4 \).

7) Write the equation of a line that is drawn through the points \((-2, 2)\) and \((2, -8)\).

8) Decide whether each of the following graphs show the graph of a function or not a function. Explain the reason for each of your decisions.

9) a) Evaluate \( f(3) \) if \( f(x) = 3x^2 + 2x - 1 \)

   b) Evaluate \( g(-2) \) if \( g(x) = 5 + x^3 \)

10) Use the graph of \( f(x) \) shown below to answer the questions.

   a) Find the domain and range for the function.

   Domain:___________________ Range:___________________
b) Find f(0).  
\[ f(0) = \ldots \]

c) For what value(s) of x is f(x) = 1.  
\[ \ldots \]