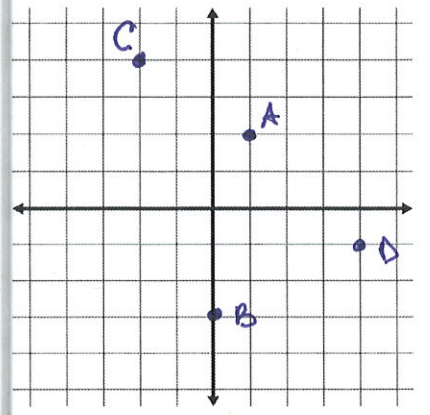
MAT 035, Quiz #5, Fall 2016 Name KEY

Instructions: Show all work to receive full credit. You should note any formulas used or calculator functions used, their inputs and outputs. I cannot grade work if I don't know where an answer came from. Be sure complete all parts of each questions, including requests for interpretation and explanations. Be as thorough as possible.

1. Plot the points below on the graph.
   a. $(1,2)$
   b. $(0,-3)$
   c. $(-2,4)$
   d. $(4,-1)$



2. The cost y in dollars is given by the equation $y = 12.60x + 1500$, where x is the number of items made and with fixed costs of \$1500.
   a. What is the slope? 12.60
   b. What does it mean in context?

      for each additional unit made, the total cost increases by 12.60.

   c. What is the y-intercept? 1500
   d. What does it mean in context?

      if no items are made, the cost is 1500.

3. Find the slope of the line connecting $(2,10)$ and $(4,26)$.

$$\frac{26-10}{4-2} = \frac{16}{2} = 8$$

4. Graph the equation $x + 2y = 4$ on the graph below.