Find the slope of the line passing through the given points and describe the line as increasing, decreasing, vertical, or horizontal.

1. (-2, 4 1/2) and (1, -6)

2. (2, 5) and (-2, 5)

3. (-4, -2) and (-4, 1)

4. (-4, -5.5) and (0, -5)

Thomas went to the comic book store looking for some back issues to fill in his collection. Some books were selling for $3 each and some were selling for $4 each. He spent a total of $36.

1. What equation could be used to model this situation?
   Be sure to define your variables.

2. Identify and explain the meaning of the intercept(s) for this situation.

3. Make a graph that shows the possible combinations of $3 and $4 comic books that Thomas could have purchased.
   Identify at least 4 solutions on your graph.