Assignment 9

Name _____   Class _____   Date _____

Show all work on **_graph paper_**!

Review problems:

1. Samantha went shopping at Sears over the weekend to buy a new dishwasher. The original price of the dishwasher was $899.99. She had two coupons, one for 15% off, the other for $80 off.

   a) Which coupon should she use to save the most money?
   b) If she uses the first coupon for 15% off, how much will she pay for the dishwasher at the register?

Answer all of the following questions on graph paper.

2. On a set of axes, plot and label the following points, then connect them to form figure ABC.

   A = (-2, 3)
   B = (- 6, 1)
   C = (- 3, -3)

3. Reflect figure ABC over the x-axis. Label your new image A'B'C'. List the coordinates of the new figure next to the graph.
4. Now reflect A'B'C' over the y-axis. Label your new image A"B"C". List the coordinates of the image next to the graph.
5. Compare and contrast how the coordinates of a point change after reflections in the x and y axes.

6. BinLee said that the following transformation was an example of a reflection over the x axis. Using at least 3 sentences, explain whether you agree or disagree with BinLee and why.