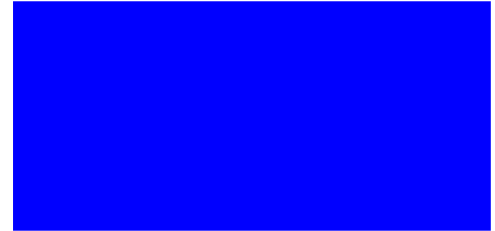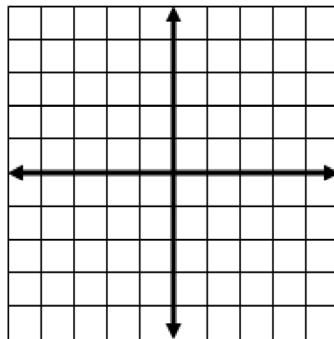**GROUPS,please.** **I will pass out a handout for this**

1. The table shows the number of misdirected bags and the number of late flight arrivals by week, for one airline.

Number of Misdirected Bags	37	42	25	9
Number of Late Arrivals	12	8	28	36

a. Use a calculator to find the line of best fit, rounding to 4 decimal places.

b. What is the correlation coefficient, r?

c. Describe the correlation. **(Use 2 words)**

d. Using your equation from part a, find the number of late arrivals if the number of misdirected bags is 20. **(Show your substitutions)**

2. a) Graph

$$x + 2y \le 6$$

$$1 \le x \le 5$$

$$y \ge 0$$

b) What are the corner points of the graph?

3. **Write a system of inequalities to describe the shaded region.**