Math 3 - Unit 2 Day 2 Homework

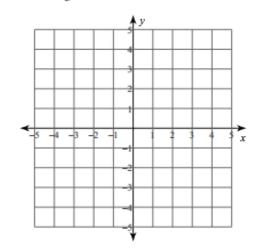
You must show the equations for the system, label your variables and solve the system in order to receive full credit for this HW assignment.

- 1. The math club and the science club had fundraisers to buy supplies for a hospice. The math club spent \$135 buying six cases of juice and one case of bottled water. The science club spent \$110 buying four cases of juice and two cases of bottled water. How much did a case of juice cost? How much did a case of bottled water cost?
- 2. Suppose you invest \$1500 in equipment to put pictures on T-shirts. You buy each T-shirt for \$3. After you have placed the picture on a shirt, you sell it for \$20. How many T-shirts must you sell to break even?
- 3. Suppose you bought supplies for a party. Three rolls of streamers and 15 party hats cost \$30. Later, you bought 2 rolls of streamers and 4 party hats for \$11. How much did each roll of streamers cost? How much did each party hat cost?

Graph the following Systems of Inequalities:

4)
$$x \le -3$$

 $y < \frac{5}{3}x + 2$



8)
$$3x + 2y \ge -2$$

 $x + 2y \le 2$

