1. Which point would be a solution to the system of linear inequalities shown below?

$$y \leq -x + 5 \qquad y \leq 2x + 4$$

- ○ $(10, 7)$
- ○ $(10, 9)$
- ○ $(4, -10)$
- ○ $(10, 6)$

2. An online furniture store sells chairs and tables. Each day, the store can ship at most 42 pieces of furniture. Write an inequality that could represent the possible values for the number of tables sold, t, and the number of chairs sold, c, that would satisfy the constraint.

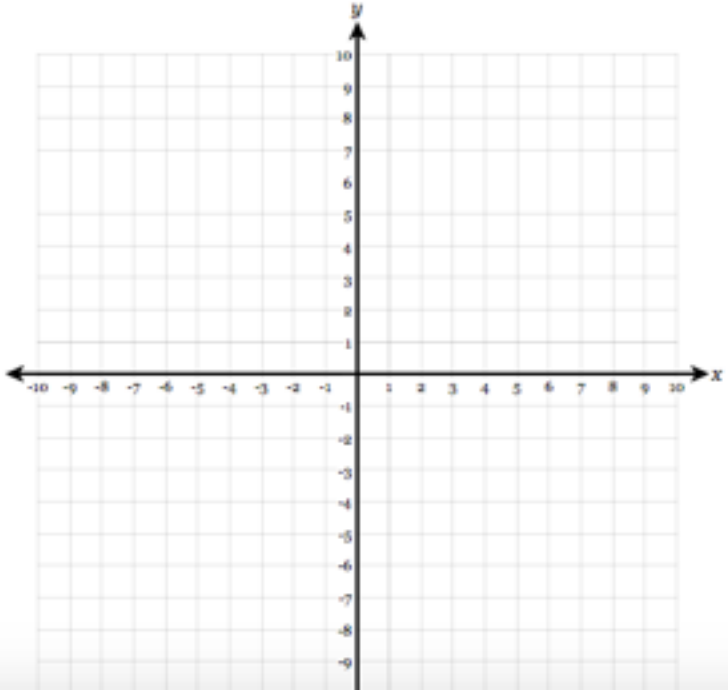
3. Solve the following inequality for r. Write your answer in simplest form.

$$-5r + 2(-3r + 5) \geq -2r - 8 + 3r$$

4. Solve the following system of inequalities graphically on the set of axes below. State the coordinates of a point in the solution set.

$$y > -x + 4$$

$$y > \frac{1}{2}x + 1$$



5. Which of the following values are solutions to the inequality $4 \geq 2 - 4x$?

I. -4 II. -1 III. -2

- None
- I only
- II only
- III only
- I and II
- I and III
- II and III
- I, II and III