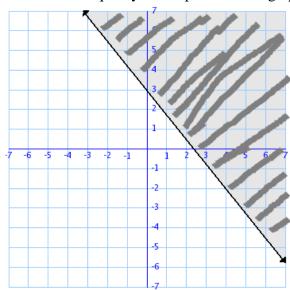
Systems of Inequalities Day 2

Fill in the blank with the word dashed or solid.

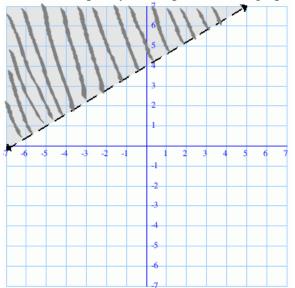
- 1. If the inequality has a < or > , then your graph will have a _____ line.
- 2. If the inequality has $a \le or \ge$, then your graph will have a _____ line.
- 3.)

Circle the inequality that represents this graph.



- A.) $y \le \frac{5}{4}x + 3$ C.) $y \le \frac{-5}{4}x + 3$ B.) $y \le \frac{5}{4}x 3$ D.) $y \le \frac{-5}{4}x 3$

State the inequality that represents this graph.

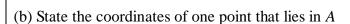


4.)_____

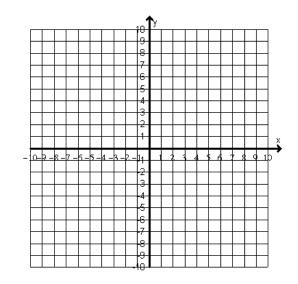
- 5.) Consider the system of linear inequalities
 - (a) Graph this system.

$$y \ge 2x - 7$$

$$y \le 2x + 4$$



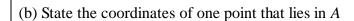
(c) State the coordinates of one point that does not lie in A.

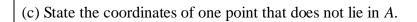


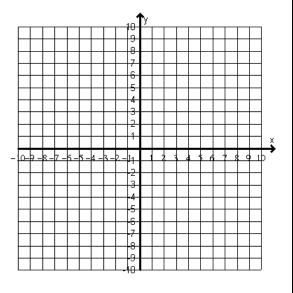
- 6.) Consider the system of linear inequalities
 - (a) Graph this system.

$$3x-3y \le 9$$

$$2x + 2y \le 8$$

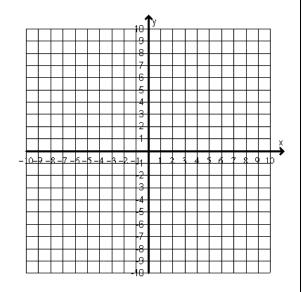






- 7.) Consider the system of linear inequalities
- (a) Graph this system.

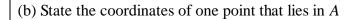
$$x \ge -2$$



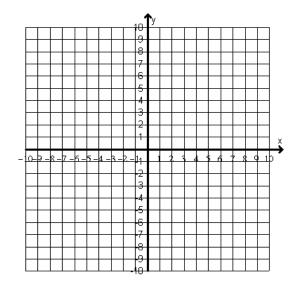
- 8.) Consider the system of linear inequalities
 - (a) Graph this system.

$$\int y \ge -x + 7$$

$$|2x-y>4|$$



(c) State the coordinates of one point that does not lie in A.



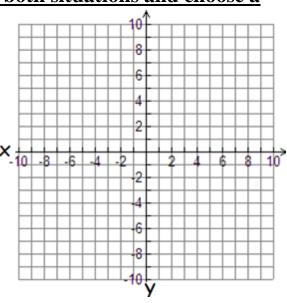
Day 3

1.) Macys sells shoes and belts. The store makes a \$5 profit on the sale of shoes (x), but loses \$4 on the sale of each belt (y). The store wants to make a profit of at least \$20 from the sale of shoes and belts.

They also sell t-shirts and sweaters. They make a \$6 profit on the sale of t-shirts (x), and a profit of \$4 on the sale of each pair of pants (y). The store wants to make a profit of at least \$24 from the sale of t-shirts & sweaters.

Write & Graph the inequalities that describes both situations and choose a

solution.



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