Algebra Ch 7 Quiz Name

ame:

Determine if the given ordered pair is a solution to the system.

"I forgot to make a back-up copy of my brain, so everything I learned last semester was lost."

1. (5, 1) y = -x + 4y = x - 6 2. (4,1) $3x + 2y \ge 10$ y < 3x - 4

Solve by graphing. Label each problem as one solution, no solution, or infinite solutions.

3.
$$y = -x - 2$$

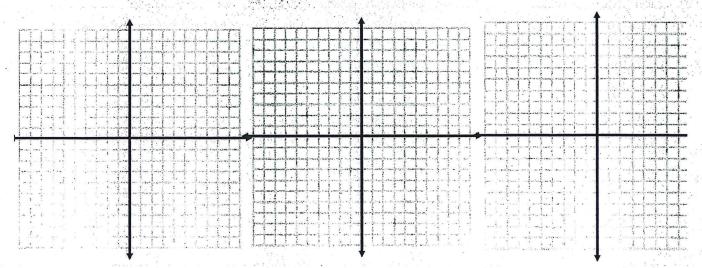
4.
$$y = 3x + 2$$

5.
$$4y = 2x + 12$$

$$y = \frac{2}{3}x + 3$$

$$6x - 2y = -4$$

$$-\frac{1}{2}x+y=-3$$

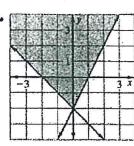


Match the system of linear inequalities with its graph.

A.
$$x + y \le 4$$

$$x + y \ge -2$$

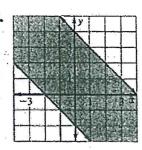
6.



$$B. \quad x + 2y \le 4$$

$$-2x + y \ge -2$$

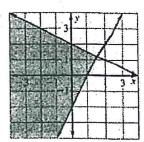
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C.
$$x + y \ge -2$$

 $-2x + y \ge -2$

8.

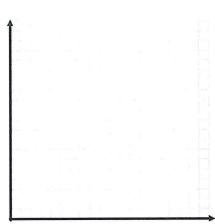


9. Your budget allows you to spend no more than \$24 on decorations for a party. Streamers cost \$2 per roll and tablecloths cost \$6 each. Make x represent the number of streamers and y represent the number of tablecloths.

Write an inequality to represent the situation.

Graph the inequality.

In words, give a solution.



10. You take care of neighbor's pets while they are gone. You charge \$15 per day to feed and walk a dog and \$5 per day to care for any other animal. You can care for at most 10 pets per day, but you want to earn at least \$30 per day. Make x represent the number of dogs and y represent the number of other animals.

Write a system inequalities to represent the situation.

Graph the inequality.

In words, give a solution.