

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Algebra 2 CP Chapter 3 Review

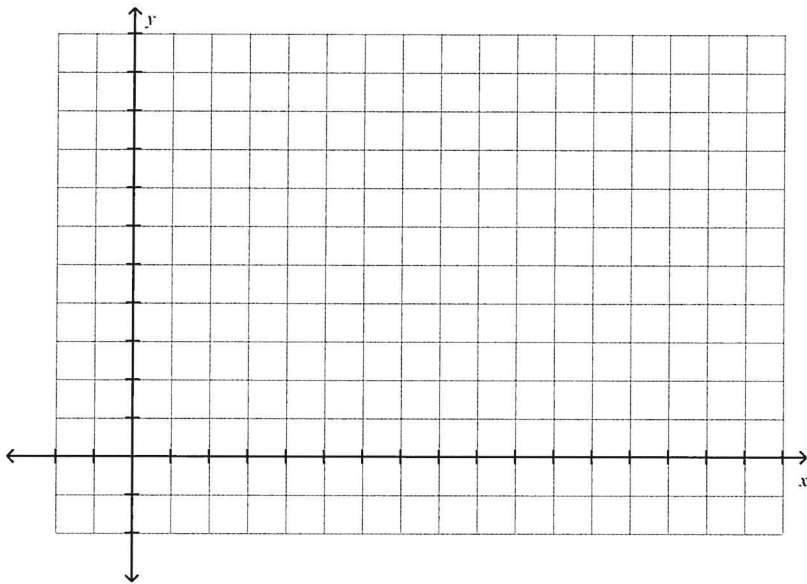
1. Find the maximum and minimum values of the objective function subject to the given constraints.

Objective Function:  $C = 3x + 4y$

Constraints:  $x + y \leq 10$

$-x + y \leq 5$

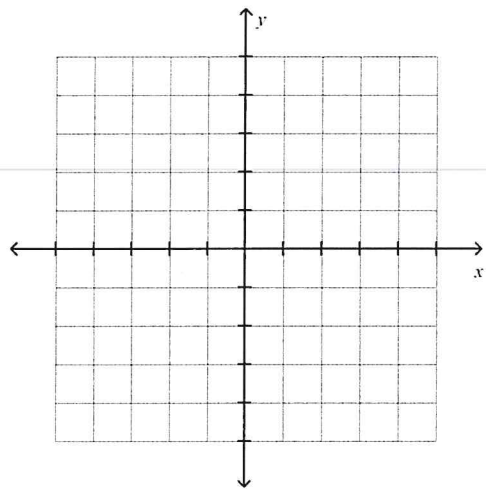
$2x + 4y \leq 32$



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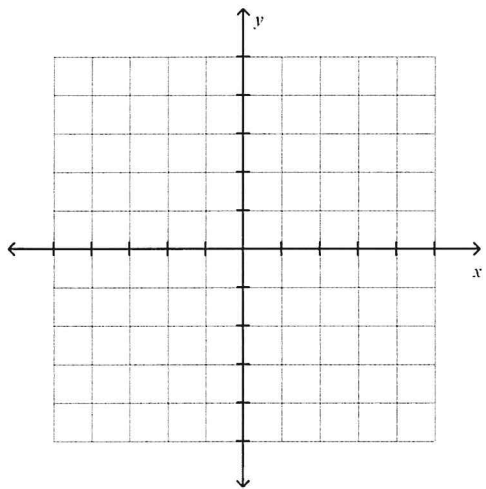
2. Graph the system of linear inequalities.

$$\begin{cases} x + 2y \geq -6 \\ x + 2y \leq 2 \\ y \geq -1 \end{cases}$$



3. Graph the system of linear inequalities.

$$\begin{cases} x \geq 0 \\ y < x \\ y > -x \end{cases}$$



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4. Solve the system using the substitution or elimination method.

$$7x + y = -17$$

$$3x - 10y = 24$$

5. Solve the system using the substitution or elimination method.

$$x - y = -5$$

$$x + y = 11$$

6. Solve the system using the substitution or elimination method.

$$3x + 6y = -9$$

$$x + 2y = -3$$

7. Solve the system using the substitution or elimination method.

$$2x - 5y = 1$$

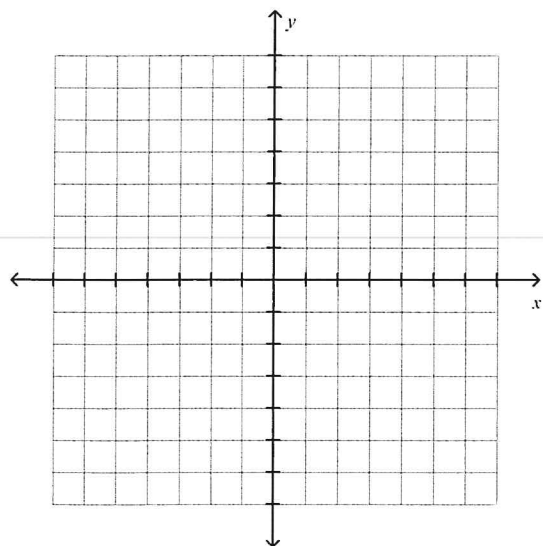
$$3x - 4y = -2$$

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8. Solve the system by graphing.

$$x + y = 1$$

$$2x - 3y = 12$$



9. Solve the system by graphing.

$$x + 3y = 12$$

$$y = 6$$

