

Name:

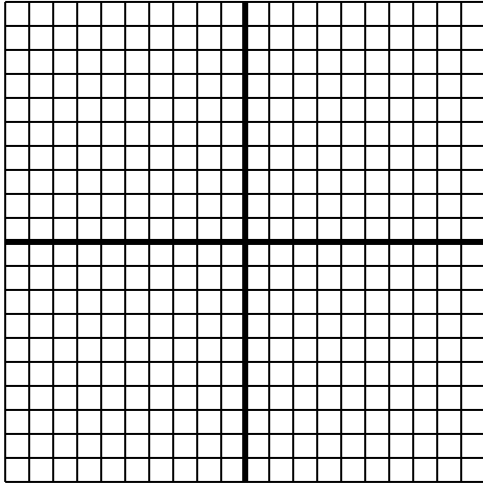
## UNIT 5 PART II TEST STUDY GUIDE



### Graphing Systems

Graph the system and find the solution.

$$y = 2x + 7$$
$$12x + 3y = -15$$



### Solving Systems by Elimination

$$2x - y = -11$$
$$y = -2x - 13$$

Check your answer on your graphing calculator!

### Word Problems

You are running a lemonade stand on the corner. Children Large glasses cost \$2 and small glasses cost \$1.50. You sell 25 cups and collect \$40. How many small cups and how many large cups did you sell?

### Solving Systems by Substitution

$$4x - 7y = 10$$
$$y = x - 2$$

## Special Cases

$$\begin{aligned} -16x + 2y &= -2 \\ y &= 8x - 1 \end{aligned}$$

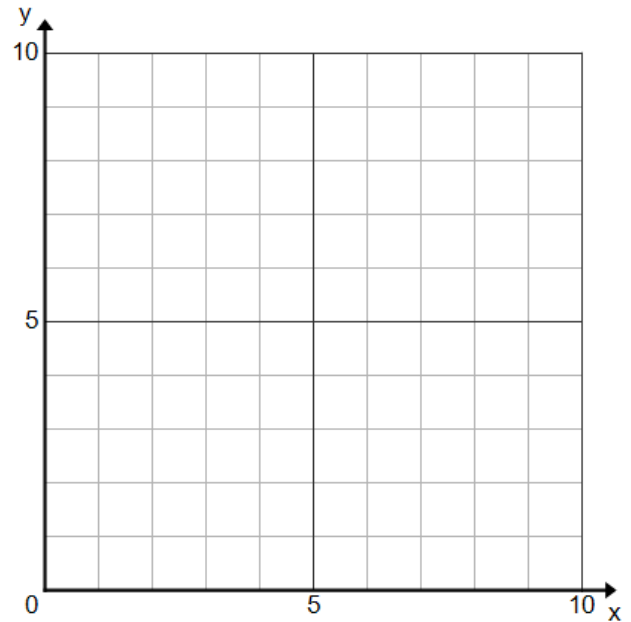
## Linear Programming

$$\begin{aligned} y &> 0 \\ x &> 0 \\ y &< -2x + 6 \\ y &< -1x + 4 \end{aligned}$$

## Graphing Calculator

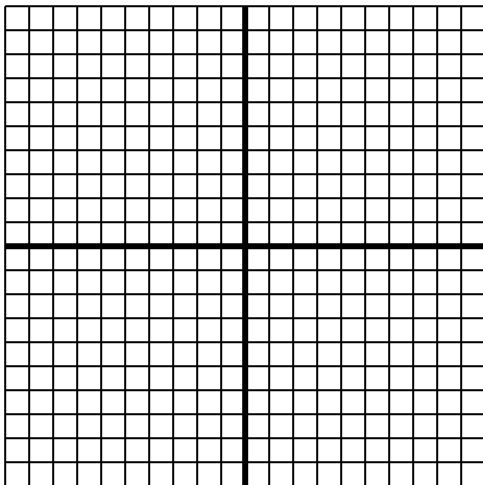
Find the solution to the system using your graphing calculator.

$$\begin{aligned} y &= -4.2x + 3.2 \\ y - 5.2x &= -6.4 \end{aligned}$$



## Linear Inequalities

$$\begin{aligned} y &> -x - 2 \\ y &\leq 3x + 6 \end{aligned}$$



**Feasible Solution Set:**

**Now go back and study your notes, homework, class activities, etc.**