

Algebra 2

0-07 Graph Linear Inequalities

Linear Inequality in two variables

- Like linear _____, but with _____ instead of =

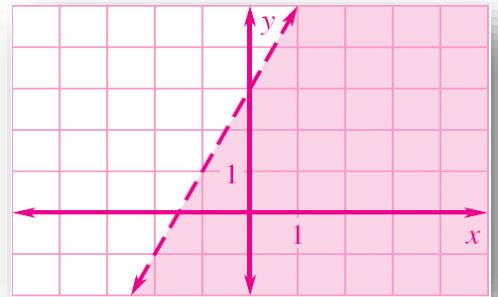
Tell whether the given ordered pair is a solution of $5x - 2y \leq 6$

$(0, -4)$

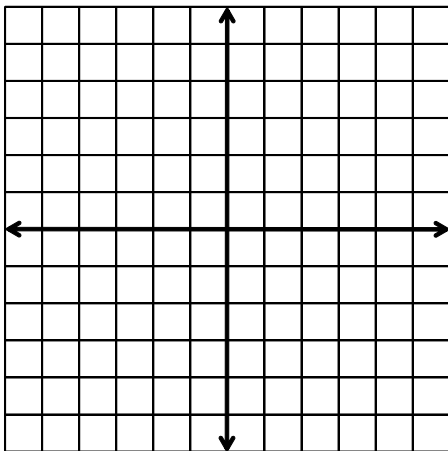
$(-3, 8)$

Graphing a linear inequality

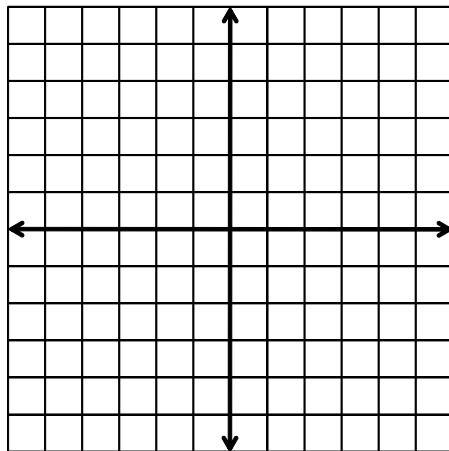
- Graph the line as if it was _____
- Dotted or Solid line
 - Dotted if _____
 - Solid if _____
- _____
 - Test a point _____ on the line
 - If the point is a solution, shade _____ of the line
 - If the point is not a solution, shade _____ of the line

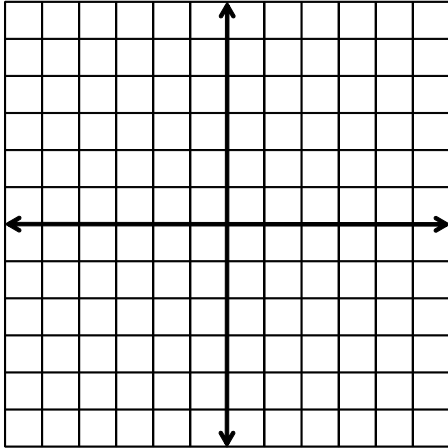
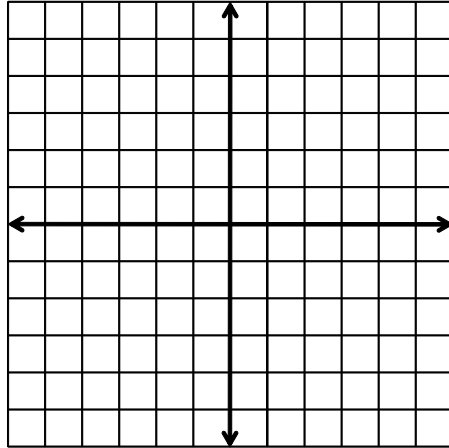


Graph $x \geq -4$



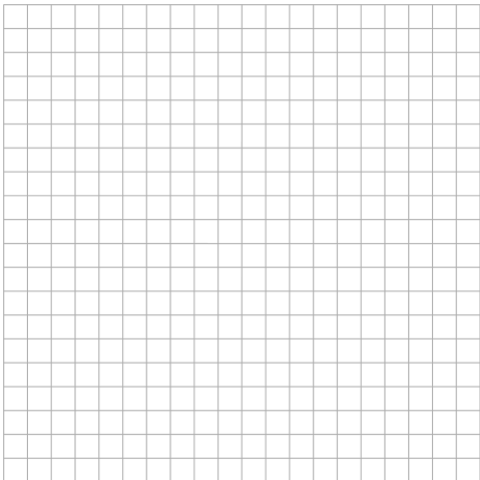
$y > -3x$



Graph $y \leq 2x + 3$ Graph $y < 3|x - 1| - 3$ 

You have two part-time summer jobs, one that pays \$9 an hour and another that pays \$12 an hour. You would like to earn at least \$240 a week. Write an inequality describing the possible amounts of time you can schedule at both jobs.

Graph the previous answer



Identify three possible solutions of the inequality