ALGEBRA II
Chapter 2 section 8
Graph Linear Inequalities in Two Variables
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FOCUS:
What does a dashed boundary line on the graph of an inequality represent?

VOCAB:
*Linear inequality in two variables:*_____

*Solution of a linear inequality:*_____

*Graph of a linear inequality:*_____

*Half - plane:*_____

WARM – UP:

Tell whether each statement is true or false when x = -2 and y = 1.

1. $2x - y < 5$_____ 2. $x + 3y \geq 0$_____

3. The equation 360x + 600y = 5640 models the weekly payroll for a small business. Give an example of a solution of the equation.

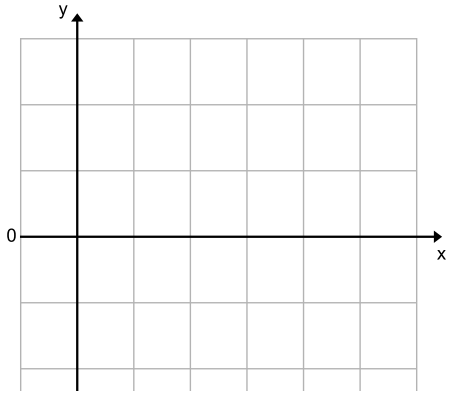
_____

NOTES:

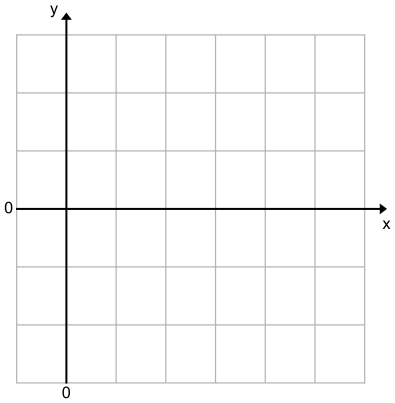
Tell whether the given ordered pair is a solution of $5x - 2y \leq 6$

(0, -4) (2, 2)

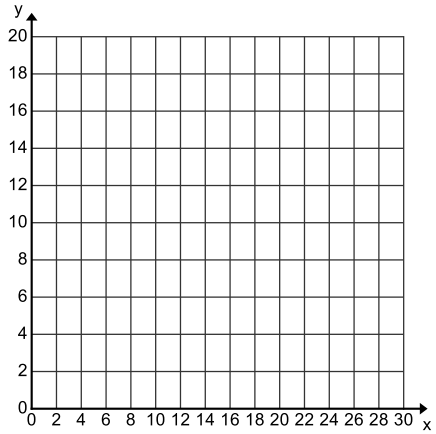
Graph $x \leq 5$ in a coordinate plane.



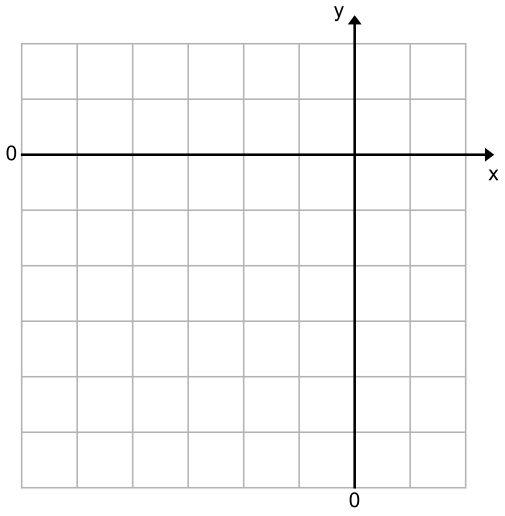
Graph $3x - 4y > 12$



You have two part time 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 inequality. Identify three possible solutions of the inequality.



Graph $y \leq - | x + 2 | - 1$.



Let's see if you comprehended what we worked on in class…

Try _____ for homework