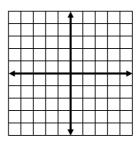
Alg 1 Week 14 Tues Warm Up

Skill 6: Convert to slope intercept form and graph

$$x-3y=0$$



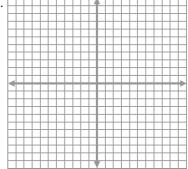
Skill 7: Write the equation of the line that passes through the given points in slope intercept form.

Skill 8: Write the equation of the line that is parallel to $y=-\frac{3}{2}x-5$ and passes through (4,-1), in slope-intercept form.

Skill 9: Graph the two equations on the same grid. Find their intersection.

Line A: y = 3x - 8

Line B: y + 8 = x Intersection point_



Should the intersection point work on both lines? Why or why not?

Notes for 6-1 Solving Systems by Graphing

A system of equations that has at least one solution is **consistent**. A consistent system can be either *independent* or *dependent*.

A consistent system that is **independent** has exactly one solution. For example, the systems in Problems 1 and 2 are consistent and independent. A consistent system that is **dependent** has infinitely many solutions.

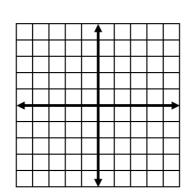
A system of equations that has no solution is inconsistent.

Problem 3 Systems With Infinitely Many Solutions or No Solution

What is the solution of each system? Use a graph.

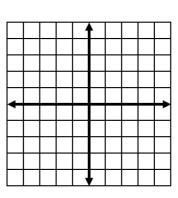
$$2y - x = 2$$

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



$$y = 2x + 2$$

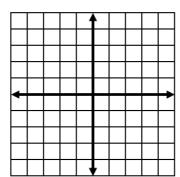
$$y = 2x - 1$$



Got It? 3. What is the solution of each system in parts (a) and (b)? Use a graph. Describe the number of solutions.

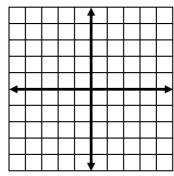
a.
$$y = -x - 3$$

 $y = -x + 5$



b.
$$y = 3x - 3$$

 $3y = 9x - 9$

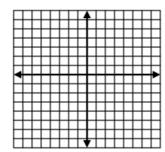


c. Reasoning Before graphing the equations, how can you determine whether a system of equations has exactly one solution, infinitely many solutions, or no solution?

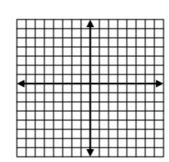
6.1C Algebra 1 Graphing Systems Practice #1, Wk14 Tues. HW Label line A & B on your graphs Solve by graphing. Check your answer, if possible. HW

$$y = 2x + 7$$
 Line A:
1. $y = -\frac{3}{2}x$ Line B:

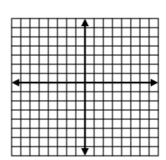
2.
$$y = \frac{2}{3}x - 1$$
 Line A:
 $x + 3y = 6$ Line B: $x + 2y = -2$ Line B:



Solution:



Solution:

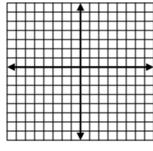


Solution:

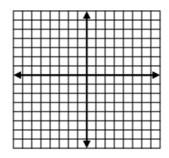
Check: Check: Check:

4.
$$x-4y=12$$
 Line A:
 $x+y=2$ Line B:

5.
$$y = 3x - 1$$
 Line A:
 $6x - 2y = 2$ Line B:



Solution:



Solution:

Check: Check: