Worksheet 7.1 – Solving Linear Systems by Graphing – Textbook pages 398-403

LEVEL 1

Decide whether the ordered pair is a solution of the system of linear equations. (YES or NO) Show your work.

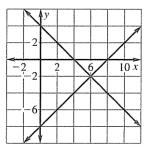
1) (1, 1)	2) (2, 4)	3) (-5, -2)
2x + y = 3	4x + y = -4	x - y = 3
x - 2y = -1	-x-y=1	3x - y = 11

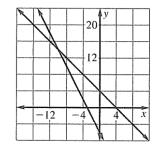
LEVEL 2

Use the graph to solve the linear system. Check your solution. Show your work.

4)
$$-x + y = -8$$

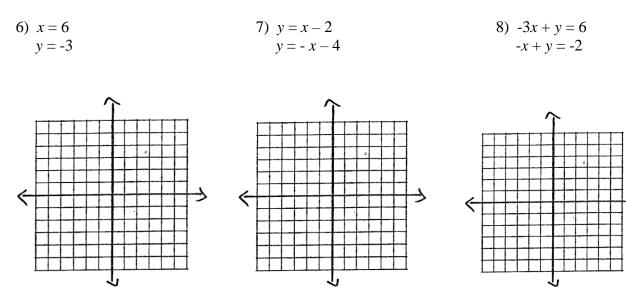
 $x + y = 4$
5) $4x + 2y = -12$
 $2x + 2y = 8$





LEVEL 3

Graph and check to solve the linear system. Show work when necessary.



LEVEL 4

9) You bought 20 one gallon containers of chocolate ice cream and vanilla ice cream for your family reunion. The chocolate ice cream was on sale for \$5.75 a gallon and the vanilla ice cream was \$5.25 per gallon. You spent \$109. How many gallons of each type of ice cream did you buy? (Hint: Write one equation for the total number of gallons of ice cream and another equation for the total price. Then graph.)

