

MTH 65 – Graded Homework 1
Due: 2:30 pm, January 5, 2011

Name _____

Problem 1 of 2

Consider the system of equations $\begin{cases} y = 2x \\ y = -x + 6 \end{cases}$.

- a. State the slope and y-intercept of each line. You may simply write the information in the provided boxes.

line	slope	y-intercept
$y = 2x$		
$y = -x + 6$		

- b. State the solution to the system after first graphing onto Figure 1 the lines that go with the equations.

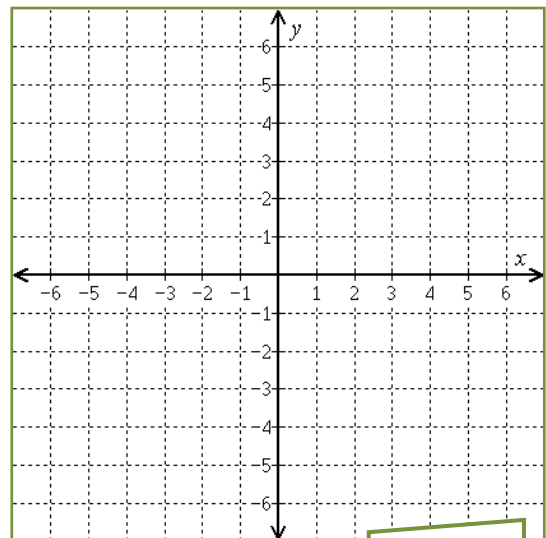


Figure 1

Problem 2 of 2

Consider the system of equations $\begin{cases} 3x + y = 7 \\ 2x - 3y = 15 \end{cases}$.

- a. Manipulate each equation into slope-intercept form. Show your steps!
- b. State the solution to the system after first graphing onto Figure 2 the lines that go with the equations.

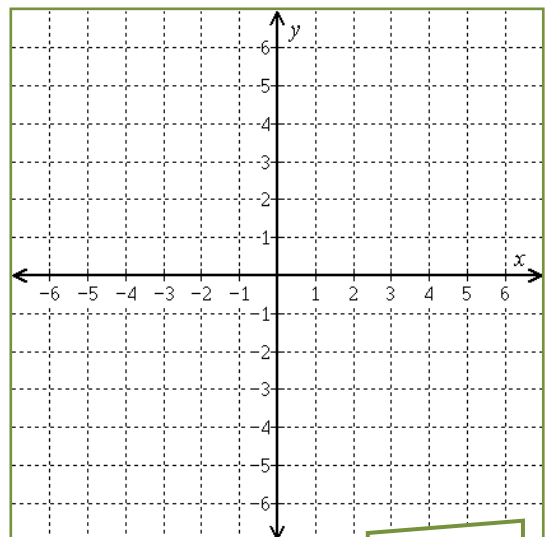


Figure 2