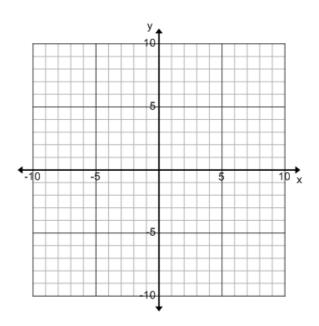
Unit 1: Systems of Linear Equations
Day 7: How Lines Intersect

Today we will.....

 examine how slope and y-intercept determine the number of solutions to a linear system

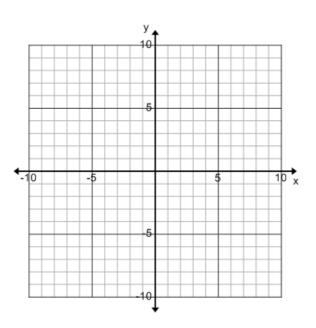
Solve the following by graphing:

a)
$$y = 2x + 1$$
$$y = -x + 7$$

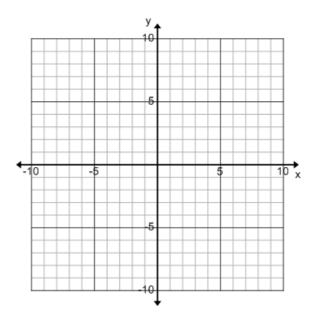


b)
$$-3y = 9 - 6x$$

 $4x - 10 = 2y$



$$c) \quad 4x - 2y = 6$$
$$6x = 9 + 3y$$



	A	В	C
Linear System	y = 2x + 1 $y = -x + 7$	-3y = 9 - 6x $4x - 10 = 2y$	4x - 2y = 6 $6x = 9 + 3y$
System in y = mx + b form			
Slopes (same or different?)			
y-Intercepts (same or different?)			
Sketch - a sketch gives the general shape of a graph - it does not need to be exact - it should be a good representation of the behaviour			
Number of Solutions			

Homework:

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