

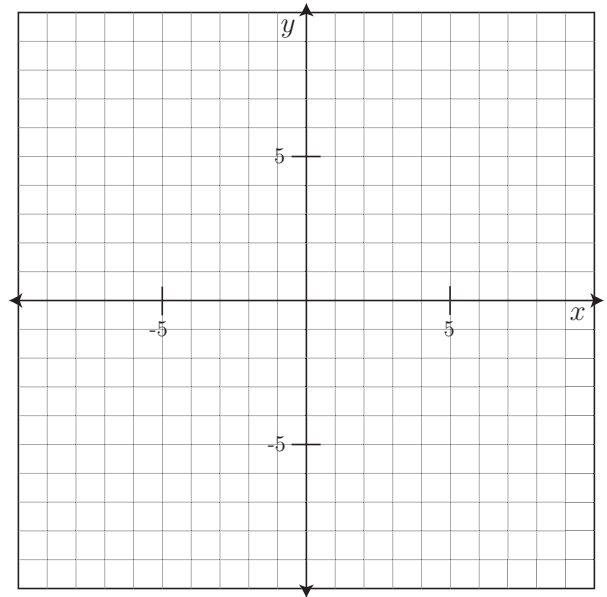
YOU MAY USE A CALCULATOR TO VERIFY SOLUTIONS, BUT NOT TO PROVIDE THEM.

Show all relevant work!

1. Solve this system by graphing.

$$3x - 2y = 8$$

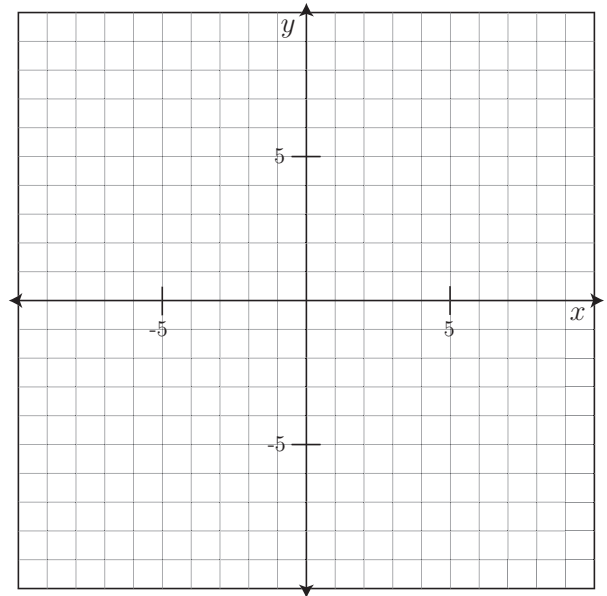
$$4x + 3y = 5$$



2. Solve this system by graphing.

$$x = -3$$

$$y = 7$$



3. The tables for two linear equations are shown below. Determine the  $x$  values that the solution to the system occurs between.

$x$	-4	-2	0	2	4	6
$y_1$	11	6	1	-4	-9	-14

$x$	-4	-2	0	2	4	6
$y_2$	4	7	10	13	16	19

4. Solve by substitution.

(a)

$$4x - 3y = 11$$

$$5x + y = -2$$

(b)

$$y = \frac{2}{3}x + 5$$

$$4x - 6y = 7$$

5. Write a system of equations (involving two variables in each equation) for which the solution is  $(-2, 3)$ .

6. Explain why the solution(s) of a system of two linear equations can be found by locating the intersection point(s) of the graphs of two equations.