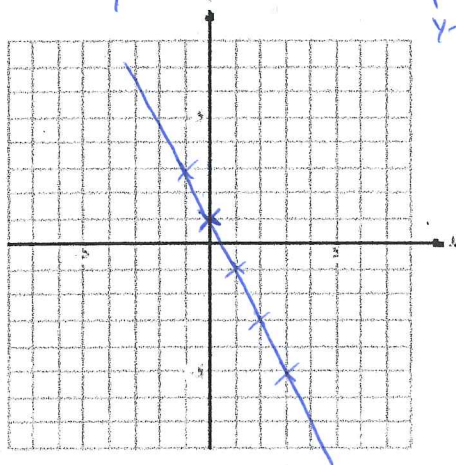


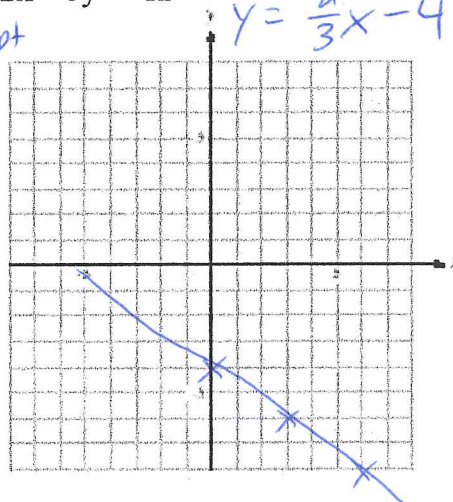
A system of equations is two or more equations with two or more variables. For example, the equations $2x + 3y = 12$ and $4x + 7y = 28$ is a system of equations. The solution of a linear system can be the intersection point of the two equations. This point can be found algebraically or graphically.

Example 1: Graph the following lines.

a) $y = -2x + 1$



(b) $2x + 3y = -12$



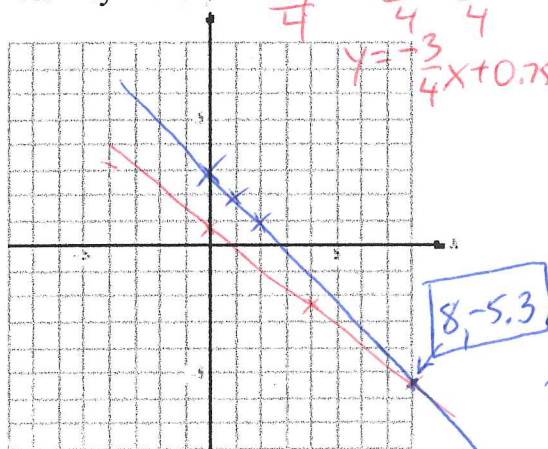
To solve graphically, the two equations must be rearranged to isolate y, graphed, and find the intersection point.

Example 2: Find the solution to the following systems of equations.

1.

$x + y = 3$

$3x + 4y = 3$



2.

$x - y = -2$

$4x + 2y = 16$

