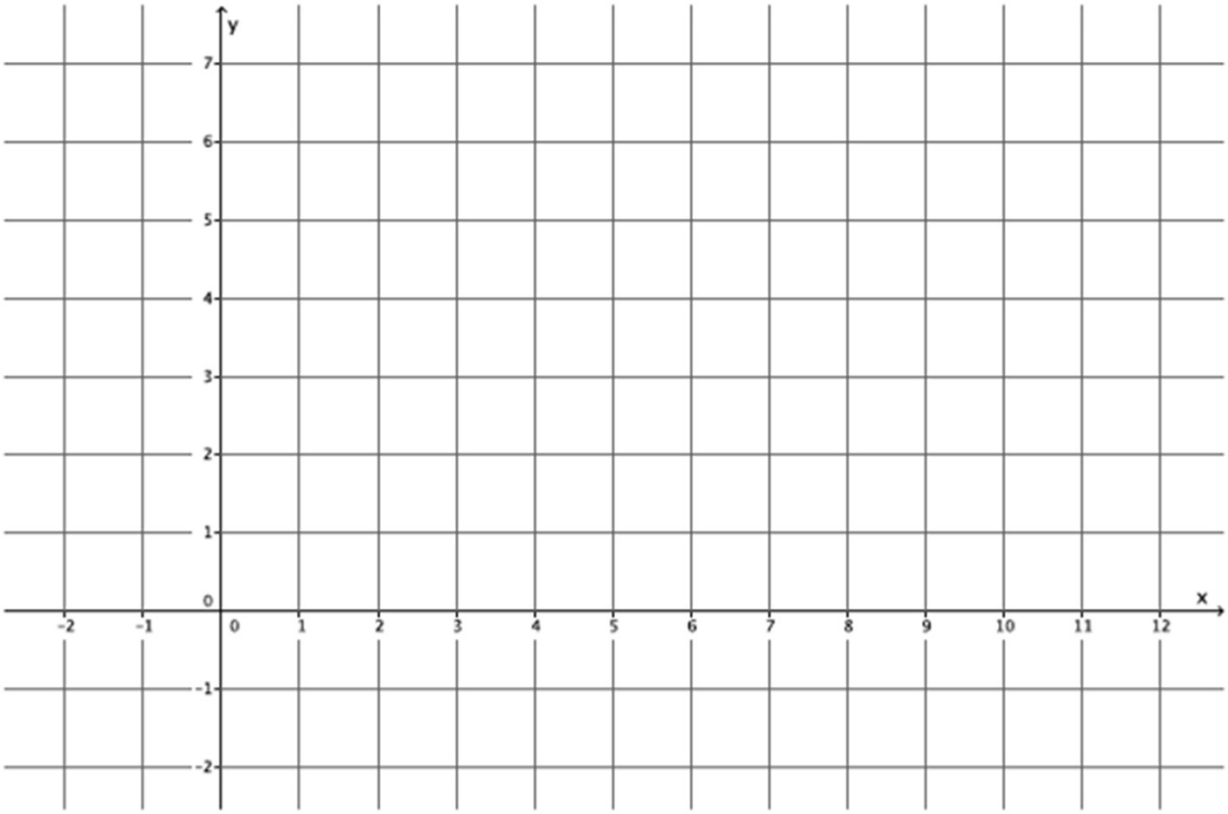
System of Equations (Graphical Method)

a) Sketch the graphs of the linear system on a coordinate plane: $\begin{cases} 2y + x = 12 \\ y = \frac{5}{6}x - 2 \end{cases}$



b) Name the ordered pair where the graphs of the two linear equations intersect which would be the solution for both equations.

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For the equation $2y + x = 12$*:*

$$2y + 0 = 12$$
$$2y = 12$$
$$y = 6$$

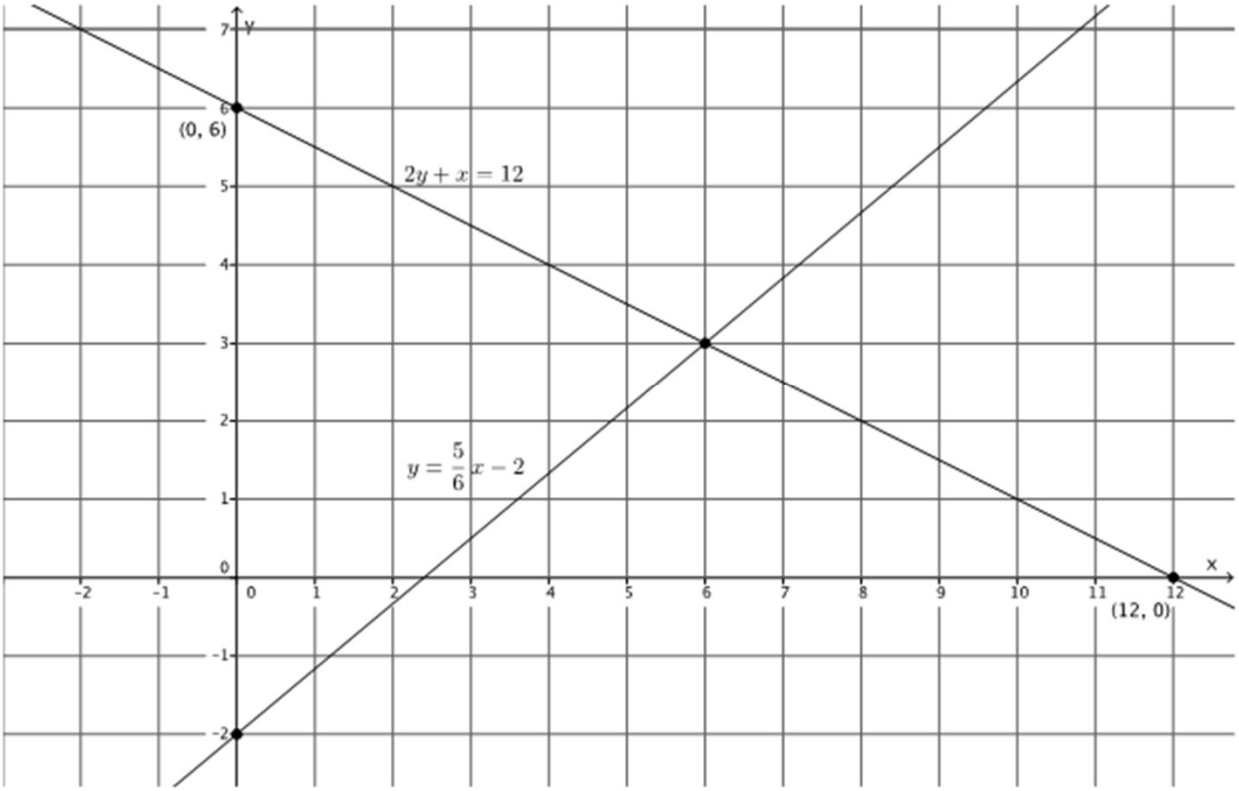
The y*-intercept point is* $(0, 6)$*.*

$$2(0) + x = 12$$
$$x = 12$$

The x*-intercept point is* $(12, 0)$*.*

For the equation $y = \frac{5}{6}x - 2$*:*

The slope is $\frac{5}{6}$*, and the* y*-intercept point is* $(0, -2)$*.*



b) Name the ordered pair where the graphs of the two linear equations intersect which would be the solution for both equations.

$(6, 3)$