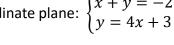
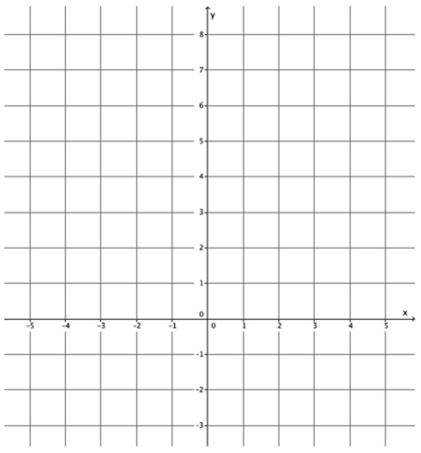
System of Equations (Graphical Method)

a) Sketch the graphs of the linear system on a coordinate plane: $\begin{cases} x+y=-2\\ y=4x+3 \end{cases}$





- b) Name the ordered pair where the graphs of the two linear equations intersect.
- c) Verify that the ordered pair named in part (a) is a solution to x + y = -2.

d) Verify that the ordered pair named in part (a) is a solution to y = 4x + 3.

System of Equations (Graphical Method)

a) Sketch the graphs of the linear system on a coordinate plane: $\begin{cases} x+y=-2\\ y=4x+3 \end{cases}$

For the equation x + y = -2

$$0 + y = -2$$
$$y = -2$$

The y-intercept point is (0, -2).

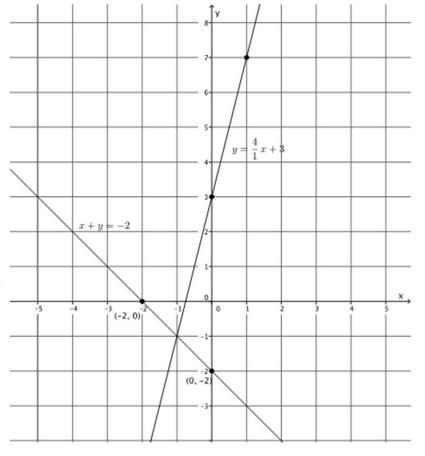
$$x + 0 = -2$$

$$x = -2$$

The x-intercept point is (-2,0).

For the equation y = 4x + 3:

The slope is $\frac{4}{1}$, and the y-intercept point is (0,3).



b) Name the ordered pair where the graphs of the two linear equations intersect.

$$(-1, -1)$$

c) Verify that the ordered pair named in part (a) is a solution to x + y = -2.

$$-1 + (-1) = -2$$

$$-2 = -2$$

The left and right sides of the equation are equal.

d) Verify that the ordered pair named in part (a) is a solution to y = 4x + 3.

$$-1 = 4(-1) + 3$$

$$-1 = -4 + 3$$

$$-1 = -1$$

The left and right sides of the equation are equal.

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