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Introduction to Simultaneous Linear Equations

$y_D = 0.5x$

$y_T = -0.1x + 3$

$y_T = -0.1(1) + 3$

$T = 2.9$
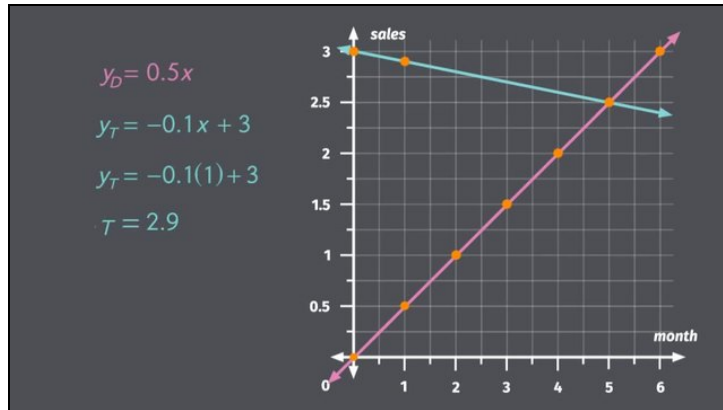
(1) **Use the table to graph points and the line.**

(2) Pair the graphs of the simultaneous linear equations with their intersection point.

(3) Determine the intersection point given a table and equation.

(4) Identify the graphs of the simultaneous equations.

(5) Find the intersection point of the lines.

(6) Determine if the two linear equations intersect or not.

(+) with lots of tips, answer keys, and detailed answer explanations for all of the problems.

⚠ The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.

Worksheet: Introduction to Simultaneous Linear Equations
Mathematics / Middle School / Linear Equations / Systems of Linear Equations and Their Solutions/ Introduction to Simultaneous Linear Equations

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Use the table to graph points and the line.

Use the highlighter to pick the correct points and line that represent the table. Use different colors.

x	y
− 1	5
0	3
1	1
2	− 1
3	− 3

Plot the points from the table on the graph below and draw the line going through them.

Plot the points in blue and the line in yellow.

◇ points on the line   ◇ line going through the points

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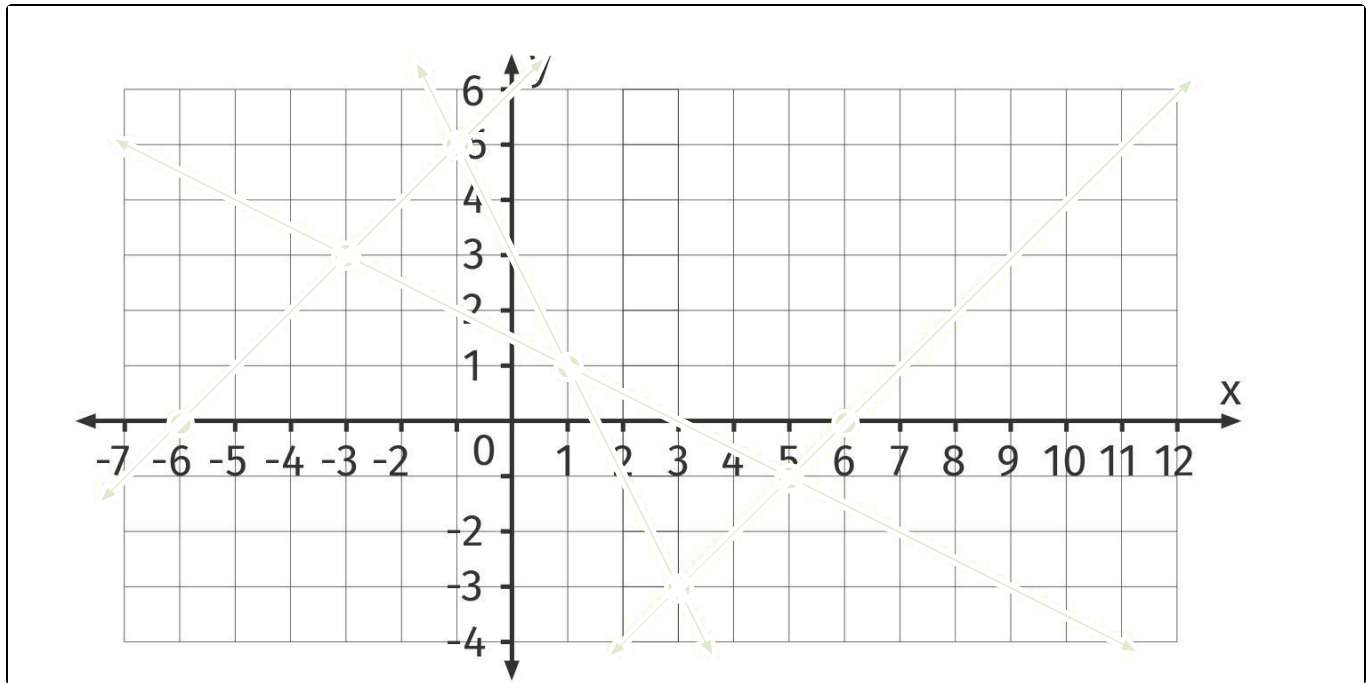
Hints for solving these problems

Use the table to graph points and the line.

Hint #1

A point on a graph consists of an x-value and a y-value. In a table, if x is 1 and y is 2, the point is $(1, 2)$.

Hint #2

To graph the ordered pair, $(1, 2)$, start at the origin $(0, 0)$ and move 1 unit to right on the x-axis then 2 units up on the y-axis.

Hint #3

If the ordered pair is $(-1, -2)$ start at the origin $(0, 0)$, and move 1 unit to the left on the x-axis then 2 units down on the y-axis.
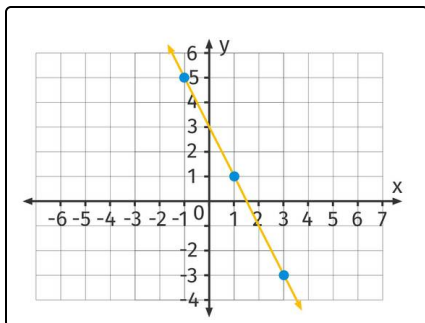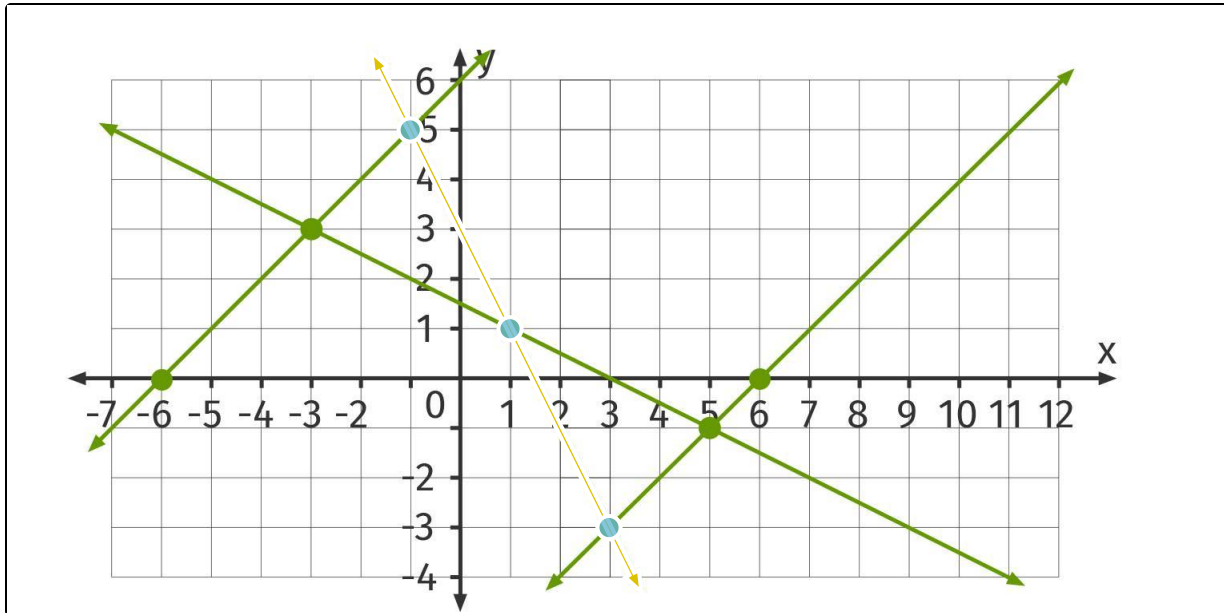
Answers and detailed answer explanations for these problems

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Use the table to graph points and the line.

◆ points on the line   ◆ line going through the points

The image shows the points plotted from the table and the line going through the points.

The graph we were given didn't allow us to highlight points $(0, 3)$ and $(2, -1)$ but they are still there as represented by the continuous line.

A point on a graph consists of an x-value and y-value.

To graph the ordered pair, (x, y), move x units on the x-axis then y units on the y-axis.

If x is positive, the point will move to the right, and if x is negative the point will move to the left.

If y is positive, the point will move up, and if y is negative the point will move down.