#### Lesson Plan

Lesson: <u>2 - 1</u>

Grade 10 Academic Math

Unit: Linear Systems

## Topic: <u>Prerequisite Skills</u>

### homework check: <u>None</u>

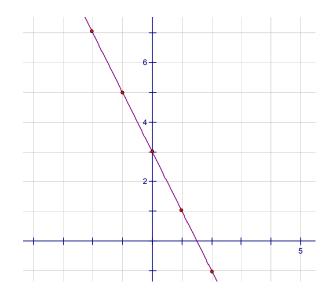
## **#** note: <u>Prerequisite Skills</u>

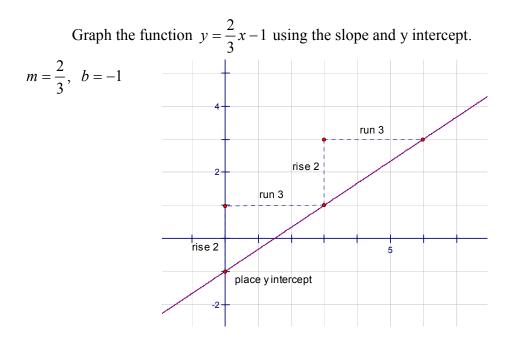
Solving equations is another very important skill much like factoring. To solve an equation means systematically isolating the unknown variable to find the value. For example,

	b) $\frac{2x}{3} + \frac{x-1}{2} = -4$
a) $3(x+2)-5=7$	5 2
3x + 6 - 5 = 7	$6\left(\frac{2x}{3}\right) + 6\left(\frac{x-1}{2}\right) = 6\left(-4\right)$
3x + 1 = 7	4x + 3(x - 1) = -24
3x = 6	4x + 3x - 3 = -24
<i>x</i> = 2	7x = -21
	x = -3

Graphing an equation involves one of two methods: a table of values or use of the slope and y intercept. For example, complete a table of values to graph y = -2x + 3.

X	У
-2	7
-1	5
0	3
1	1
2	-1





Identifying solutions as ordered pairs can be done using a method to check your answer. For example, is the point (1,-2) a solution of y = 5x - 1? (This question really asks if x = 1 does y = -2.)

If we substitute the value of x = 1, we find y = 5(1) - 1y = 4

Because  $y \neq -2$ , the point (1, -2) is not a solution.

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