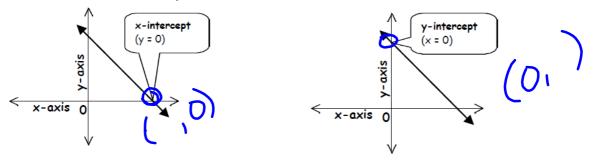
X and Y Intercepts:

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X-intercept= the point where a graph crosses the x-axis; the point where y = 0

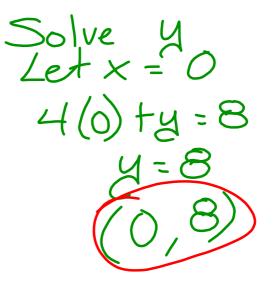
y-intercept= the point where a graph crosses the y-axis; the point where x = 0



How to Find The X & Y Intercept:

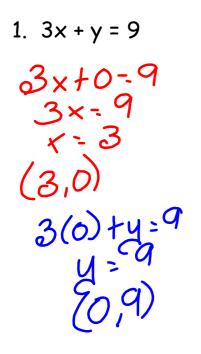
Determine the x-intercept for 2x + y = 8. Solution: Let $y = 0 \rightarrow 2x + (0) = 8$ Solve for $x \rightarrow 2x = 8$ x = 4x-intercept is $\rightarrow 4$ or (4, 0) Determine the y-intercept for 2x + y = 8. Solution: Let $x = 0 \rightarrow 2(0) + y = 8$ Solve for $y \rightarrow y = 8$ y-intercept is $\rightarrow 8 \text{ or } (0, 8)$ Example: 4x + y = 8

Solve X Let y = 0 4x + 0 = 8 $\frac{4}{4} \times = \frac{\varepsilon}{4}$



PRACTICE:

Find the x and y intercept for the following equations & write them in y=mx + b form and find the intercepts (x and Y):



2. 5x + y = 20 5(0) + y = 20 y = 20 (0, 20) 5x + 0 = 20 5x + 0 = 20 5x - 20 5x - 4(4, 0)

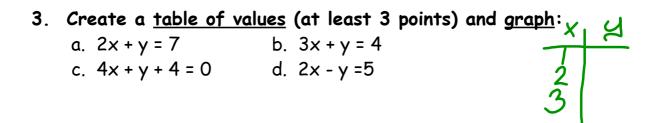
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<u>Classwork/Homework</u>

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- 1. Rearrange the equations into the form y=mx + b:
 - a. 2x + 3y = 6 b. 4x + 3y = 12 c. 3x + y = 9 d. x + 4y = 8
- 2. Find the x and y-intercepts

 a. 4x + 5y = 20
 b. 3x 4y = 12
 c. 2x + y = 4
 d. 5x + 3y = 15



<u>Classwork/Homework</u>

Copy & Complete

1. <u>Rearrange the equations</u> into the form y=mx + b:

a. 2x + 3y = 6 y = -2/3x + 2 b. 4x + 3y = 12 y = -4/3x + 4c. 3x + y = 9 y = -3x + 9 d. x + 4y = 8 y = -1/4x + 2

- 2. Find the x and y-interceptsa. 4x + 5y = 20 (5,0) (0,4)b. 3x 4y = 12 (4,0) (0,-3)c. 2x + y = 4 (2,0) (0,4)d. 5x + 3y = 15 (3,0) (0,5)
- 3. Create a <u>table of values</u> (at least 3 points) and <u>graph</u>:
 a. 2x + y = 7
 b. 3x + y = 4
 c. 4x + y + 4 = 0
 d. 2x y = 5

a) <u>x</u>	<u>y</u>	b) <u>×</u>	У	c) <u>x</u>	У	d)	×	y
a) x 1 2 3	5	1	1 -2 -5	1	-8 -12 -16		1	-3 -1 1
2	3	2	-2	2	-12		2	-1
3	1	3	-5	3	-16		3	1

Sec 3.4 - Slopes.doc

Sec 3.4 - Write the equation of a line (1).doc

- 3.4 Review Assignment.doc
- sec. 3.4 Write the equation of a line (2).doc