Algebra 1-Homework Questions

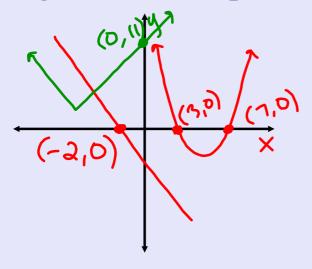
$$f(x) = -3x$$
$$y = -3x$$

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$$D:(-\infty,\infty)$$

$$R:(-\alpha,\infty)$$

Algebra 1-Intercepts



There are two types of Intercepts:

x-intercept-The function crosses the x axis at the point (X, \bigcirc)

y intercet-The function crosses the y axis at the point (O, U)

Algebra 1: y-intercepts

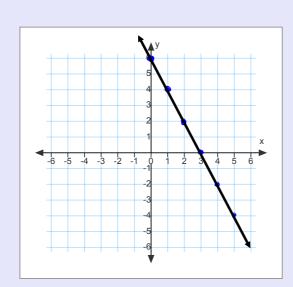
1. Find the intercepts by y = -2x+6 solving

y-intercept
$$(0, 9)$$

 $y = -2(0) + 6$
 $y = 6$ $(0, 6)$
x-intercept $(x, 0)$
 $0 = -2x + 6$
 $-6 = -2x$ $(3, 0)$
 $-2 = -2$
 $x = 3$

Algebra 1-Intercepts

2. Find the intercepts by graphing



X	-2x+6	Ц
1	-2(-2)+6	
-	-2(-1)+6	8
	-2(0)+6	6
7		
\forall		2

Algebra 1-Intercepts

3. Find the intercepts by graphing on a calculator

$$y = -2x + 6$$

x-intercept-using the zero function 2nd, trace, 2, leftside (enter) rightside (enter x2) y-intercept-using the table 2nd, graph when x=0 (0,6)

Group Activity

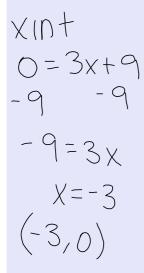
Get into groups of 3-no more and no less You must have one calculator per group

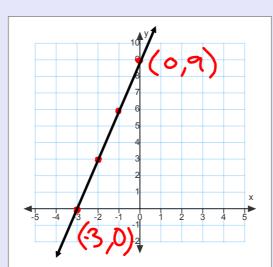
Each of you pick a different way to find the intercepts

First Problem

$$y = 3x + 9$$

3. Calculator





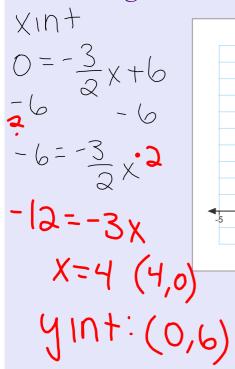
$$yint$$

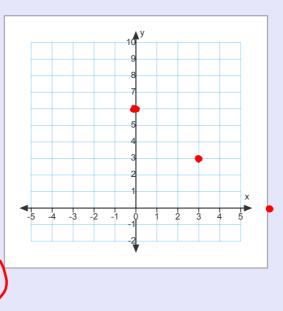
 $y=3(0)+9$
 $y=9(0,9)$

Second Problem
$$y = -3/2x + 6 \quad y = -\frac{3}{3}x + 6$$

- 1. Solving
- 2. Graphing

3. Calculator

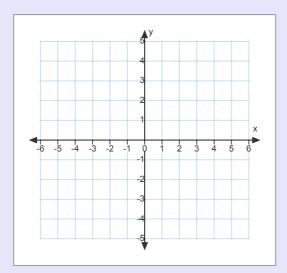




Third Problem

$$y = 1/2x - 3$$

- 1. Solving 2. Graphing
- 3. Calculator



Homework

Pg 269 #1-6

Only find the x and y intercepts Pg 266 #1, 3, 4 5, 7, 8, 9 (by solving)

#2, 6 (using calculator)