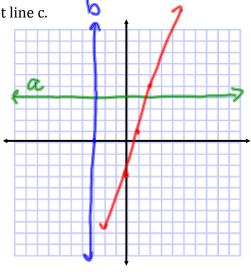
## Algebra 7-8 Warm-Up

- 1. Graph the line y = 4 and label it line a.
- 2. Graph the line x = -3 and label it line b.
- 3. Graph the line y = 4x 3 and label it line c.

$$M = \frac{4}{1} vp 4$$



## Algebra 7-8: Equations for All Lines-Standard Form

Vocab	Definition	Example
Standard Form	Ax+By=C A,B,C=integers No fractions/	2x+4y=8 A=2,B=4,C=8

When graphing lines that are in standard form, we first have to change it into <u>Superinter</u> from there, we know the <u>Superinter</u> and the <u>y-interupline</u> we are able to <u>graph</u> by starting at the <u>y-interupland</u> using the <u>Superinterupland</u> to find the next point.

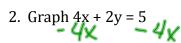
## Examples

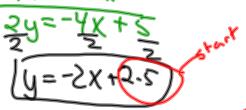
Meneed y=mx+b.

1. Graph 5x - 2v = -20

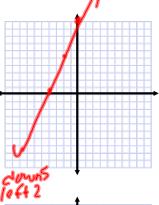
$$\frac{5x^{2}-5x}{-\frac{2}{2}y^{2}-\frac{5}{2}x-\frac{20}{20}} = \frac{5}{2}x + \frac{20}{2}$$

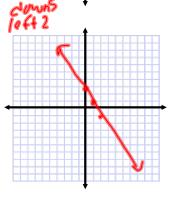
n= 5 = -5 close





$$-\frac{2}{1} = \frac{down^2}{right}$$





- 3. Grace has \$36 in five-dollar bills and singles. How many of each kind of bill does she have?
  - a. Write an equation that describes the situation. 5x + 19 = 36

b. Give 3 solutions. 
$$\frac{X=7, y=1}{5.7 + 1.1}$$
  $\frac{Y=6, y=6}{5.6 + 6.36}$   $\frac{Y=5, y=1}{5.6 + 6.36}$   $\frac{Y=5, y=1}{5.6 + 1.1}$ 

4. Rewrite each equation in standard form. Ax+By=C

$$\frac{1}{3} \sum_{y=2x+12} \frac{-2x+3y-3}{3}$$

5. Find the x- intercept and the y-intercept for the following equation. -10x + 5y = -10

(Hint: When a line crosses the x-axis the \_\_\_\_\_\_\_ value is 0. When a line crosses the y-axis, the \_\_\_\_\_\_ value is 0.)

