

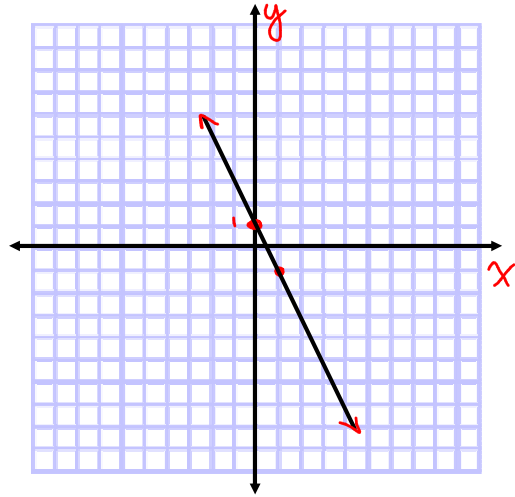
0.5 Graphing linear Equations

Graph using the slope and y-intercept.

a) $y = -2x + 1$

Slope $m = -2$
 ($m = \frac{-2}{1}$)
 rise
 ———
 run

y-int
 (crosses y-axis)



Sep 8-2:31 PM

Change from **Standard** form to **Slope intercept** form
 ($y = mx + b$) then graph.

Ex1: $5x + 3y - 9 = 0$

$$5x - 5x + 3y - 9 = 0 - 5x$$

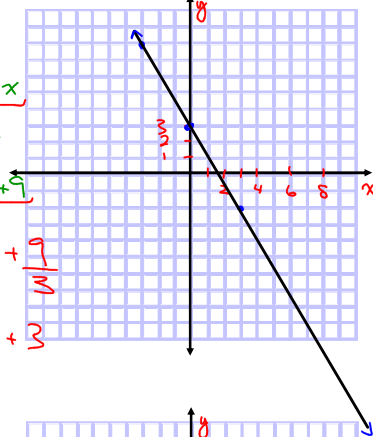
$$3y - 9 = -5x$$

$$3y - 9 + 9 = -5x + 9$$

$$\frac{3y}{3} = \frac{-5x + 9}{3}$$

$$y = -\frac{5}{3}x + 3$$

$m = -\frac{5}{3}$
 $y\text{-int} = 3$

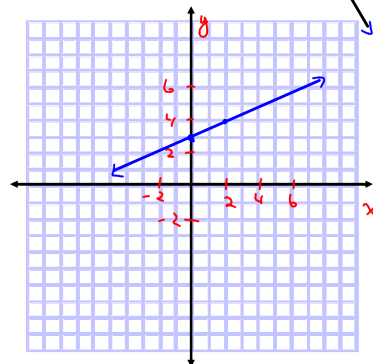


Ex2: Graph $x - 2y + 6 = 0$

$$x + 6 = 2y$$

$$\frac{x}{2} + \frac{6}{2} = y$$

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

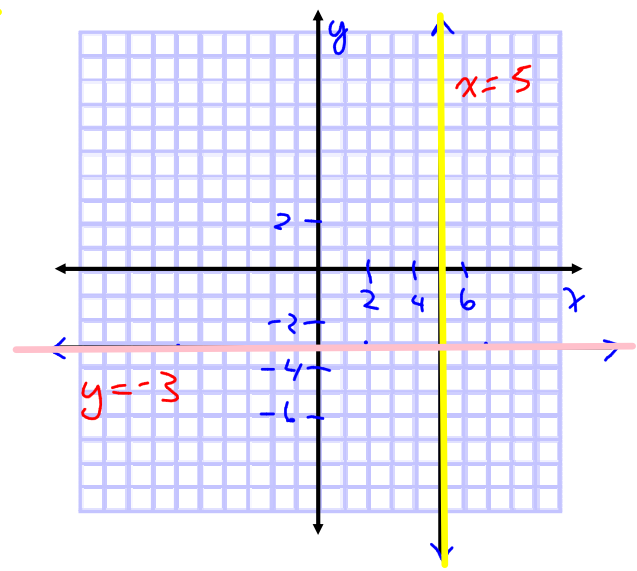


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Ex 3: Graphing Special Lines

Graph:

Graph:

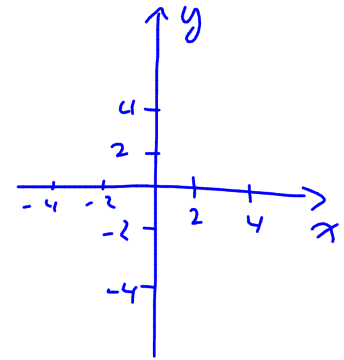


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Practice (10 min):

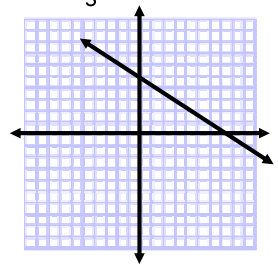
Graph the following:

1. $y = -\frac{2}{3}x + 5$
2. $y = \frac{3}{1}x + 2$
3. $4x - 5y = 20$
4. $y = -6$

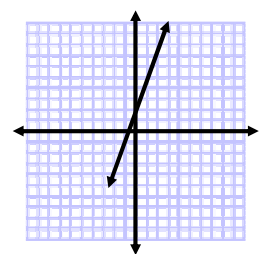


Answers:

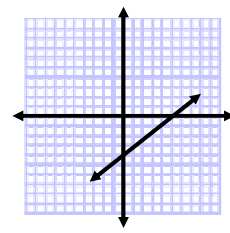
1. $y = -\frac{2}{3}x + 5$



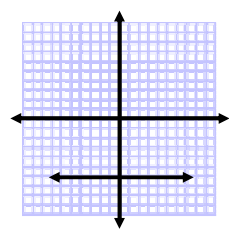
2. $y = 3x + 2$



3. $4x - 5y = 20$

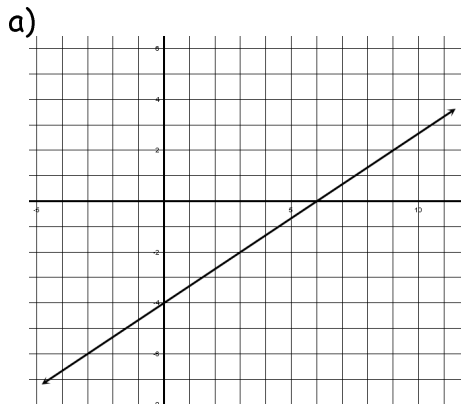


4. $y = -6$

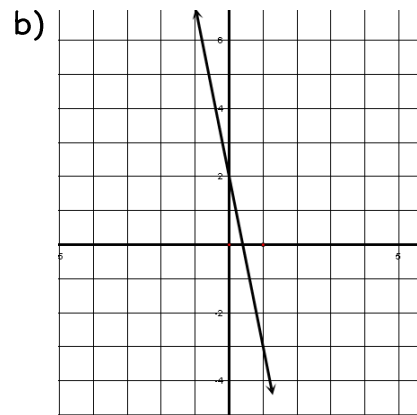


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Ex 4: State the equation of the given lines:



Pull



Pull

Sep 13-12:00 PM

Practice...

Complete the Handouts

- Match the Graphs
- Why did the Poor Man...

Review Tomorrow

Mini test is on

. It counts!

- Order of Operations
- Solving
- Slope and Graphing

Sep 14-10:24 AM