

Repeating to Remember HWK - Linear Equations

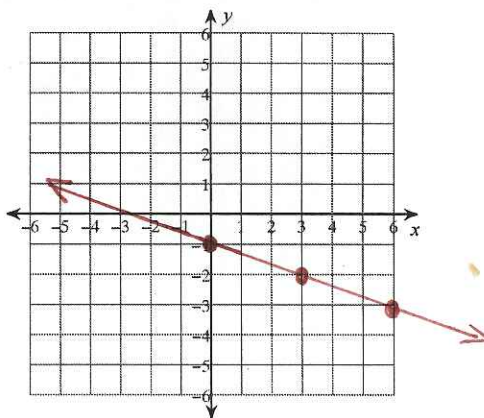
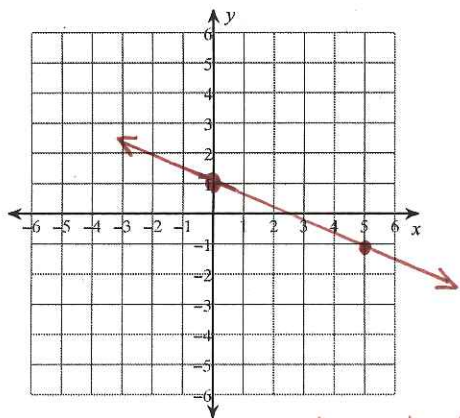
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Sketch the graph of each line.

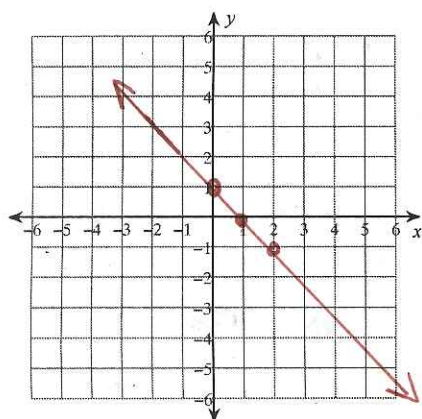
$$y = mx + b$$

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

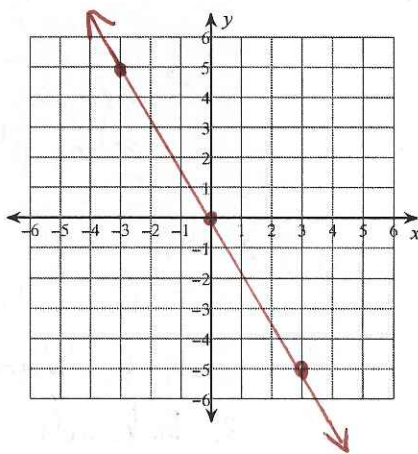
2) $y = \frac{1}{3}x - 1$



1. Start with the y-intercept (b) and plot this point on the y-axis
2. From this point use the slope $-\frac{2}{5}$ down 2, over to right 5.
3. Use a straightedge and connect points with a line.



4) $y = -\frac{5}{3}x$



The slope $-x$ is $-1x$
 which is $-\frac{1}{1}x$
 down one, over to right one.

if there isn't a y-intercept,
 the y-intercept equals 0.
 start by placing a dot at
 the origin (0, 0)

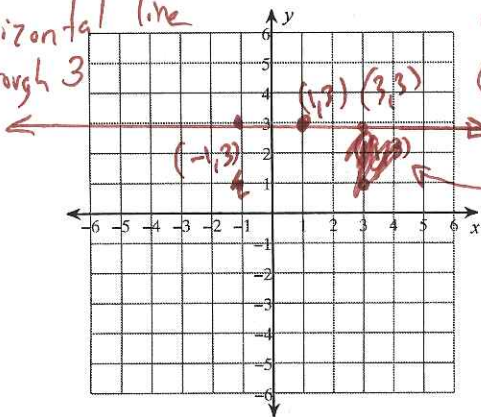
no matter what x is

$y \neq 3$ $(1, 3)$

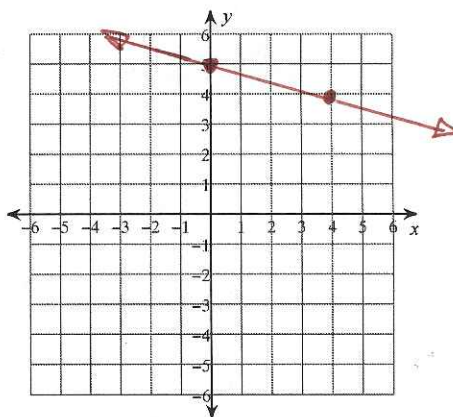
$(3, 3)$

$(-1, 3)$

5) $y = 3$
horizontal line
through 3

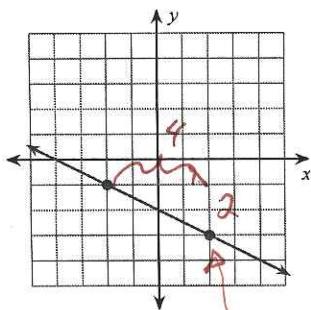


6) $y = \frac{1}{4}x + 5$



Find the slope of each line. $m = \frac{\text{rise}}{\text{run}}$

7)



slope = $\frac{\text{rise}}{\text{run}}$

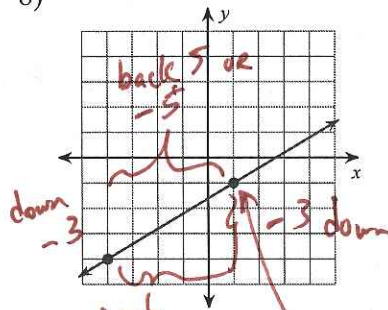
1. choose a starting pt

2. How much do I have to go up or down 2

3. backwards 4 or -4

4. slope = $\frac{\text{rise}}{\text{run}} = \frac{2}{-4}$

8)



$m = \frac{\text{rise down } -3}{-5}$

$m = \frac{-3}{-5}$

$m = \frac{3}{5}$

$= \frac{-2}{4} \text{ or } -\frac{1}{2}$