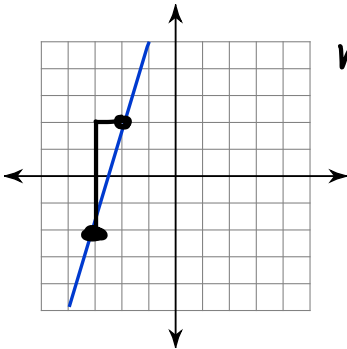


Slope/Slope-Intercept form Practice

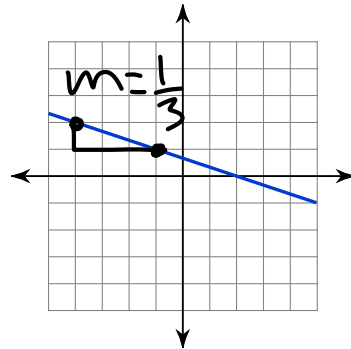
Find the slope of each line.  $m = \frac{\text{rise}}{\text{run}}$

1)



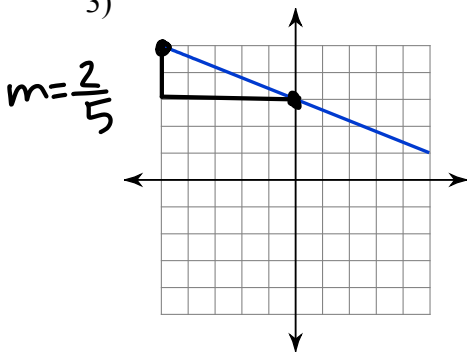
$m = \frac{4}{1}$

2)



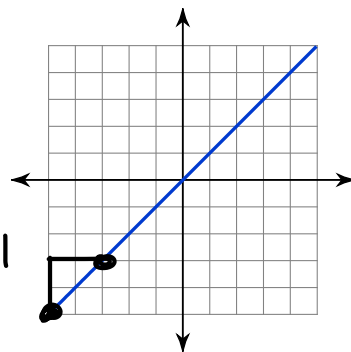
$m = \frac{1}{3}$

3)



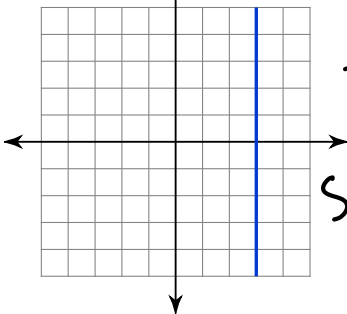
$m = \frac{2}{5}$

4)



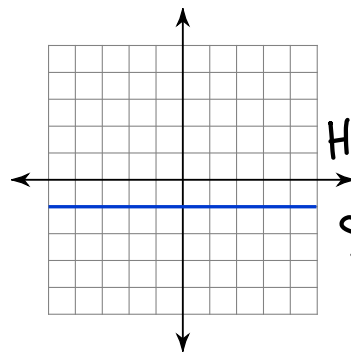
$m = \frac{2}{2} = 1$

5) Vertical line



\*memorise\*  
Slope  $\rightarrow$  Undefined

6)



Horizontal  
Slope  $\rightarrow$  zero

Find the slope of the line through each pair of points.

7)  $(16, 1), (17, 7)$   
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7 - 1}{17 - 16} = \frac{6}{1}$  or 6

8)  $(2, 8), (7, 8)$   
 $m = \frac{8 - 8}{7 - 2} = \frac{0}{5} = 0$  Horizontal

9)  $(-16, 7), (-15, 17)$   
 $m = \frac{17 - 7}{-15 - (-16)} = \frac{10}{-15 + 16} = \frac{10}{1}$  or 10

10)  $(-11, 15), (-11, 6)$   
 $m = \frac{6 - 15}{-11 - (-11)} = \frac{-9}{-11 + 11} = \frac{-9}{0}$  vertical

Get the y by it self

Get each equation in slope-intercept form

$$Y = Mx + b$$

Find the slope and y-intercept of each equation.

11)  $y + 3 = x$

$$y = x - 3$$

12)  $2y - 10 = -4x$

$$\frac{2y - 10 + 10}{2} = \frac{-4x + 10}{2}$$

$$y = -2x + 5$$

13)  $-5 - y = -3x$

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

$$y = 3x - 5$$

14)  $y = 5x$

$$y = 5x + 0$$

15)  $6 - 2y = -x$

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

16)  $5y + 10 = -2x$

$$y = -\frac{2}{5}x - 2$$

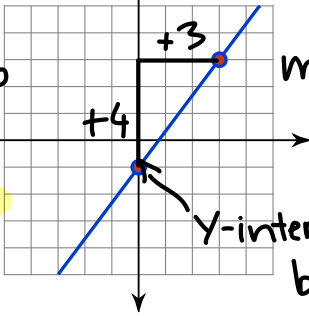
Write an equation for each line in Slope-Intercept Form

$$y = mx + b$$

$m = \frac{4}{3}$   $b = -1$

18)

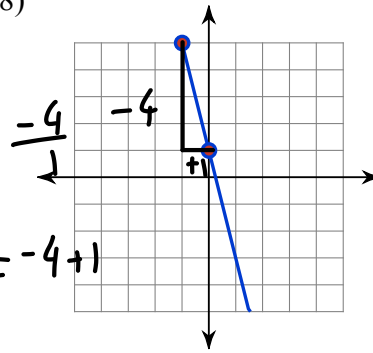
$$y = mx + b$$



$$m = \frac{\text{rise}}{\text{run}} = \left(\frac{4}{3}\right)$$

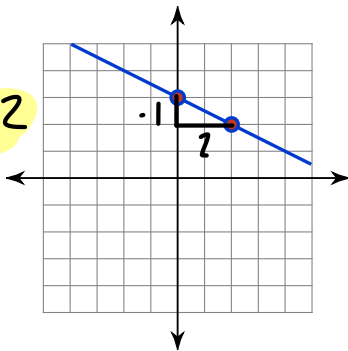
$$y = \frac{4}{3}x - 1$$

Y-intercept (b)  
 $b = -1$  or  $(0, -1)$



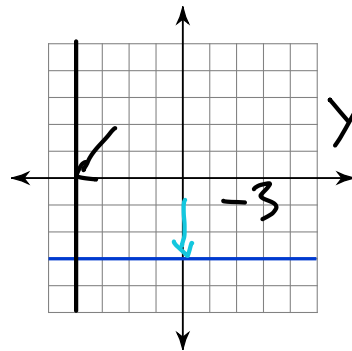
$$y = -4x + 1$$

19)



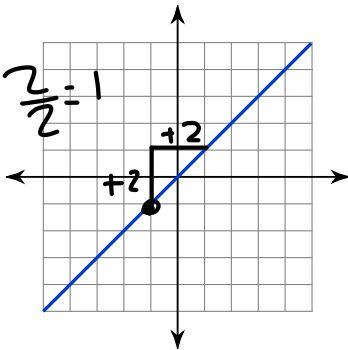
$$y = -\frac{1}{2}x + 2$$

20)



$$y = -3$$

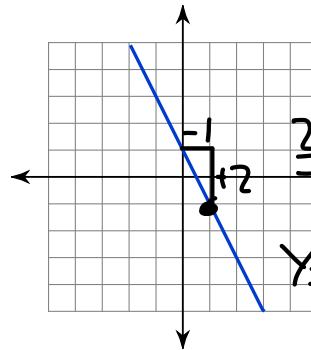
21)



$$\frac{2}{2} = 1$$

$$y = 1x$$

22)



$$\frac{2}{1} = -2$$

$$y = -2x - 1$$