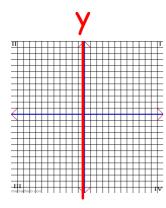
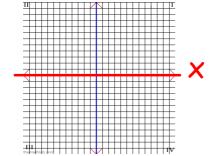
What is the slope of the y-axis?



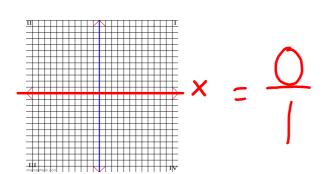
$$=\frac{1}{0}$$

What is the slope of the x-axis?

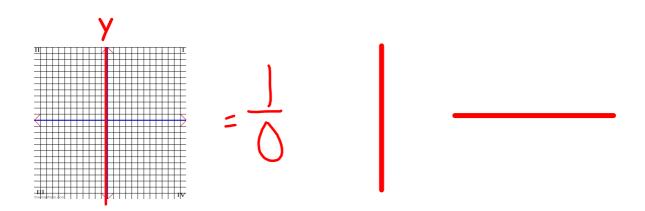




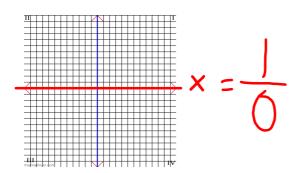
What is the slope parallel to the x -axis?



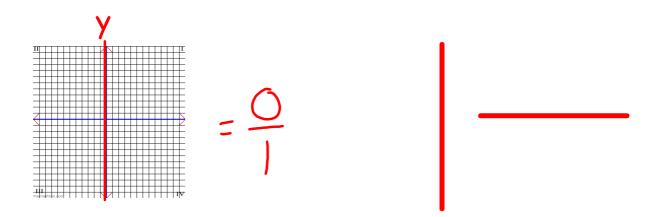
What is the slope <u>parallel</u> to the y-axis?



What is the slope perpendicular to the x -axis?



What is the slope perpendicular to the y-axis?



m = Rate of Change (Slope)

**b** = initial amount (vertical intercept or y-int.)

x = represents the x-axis

y = represents the y-axis

State the slope and the y-int (initial amount)

1. 
$$y = 5x - 1$$

$$m=5 b=-1$$

2. 
$$y = (3x + 5)$$

$$M = 5$$
  $b = 5$ 

3. 
$$y = 3/2x - 8$$

4. 
$$y = 7 + 2x$$

$$M = 2 b = 7$$

$$5.(2x-) = y$$

4. 
$$y = 7 + 2x$$
  $M = 2$   $b = 7$   
5.  $2x - 3 = y$   $M = 2$   $b = -1$ 

State the slope parallel to y = 8x - 1.
Suml

State the slope perpendicular to y = -2/3x - 3

$$Slope = -\frac{2}{3}$$

$$Ans = +3$$

State the slope parallel to y = 5x + 3

Slope = 
$$-5$$
  
Ans =  $-5$ 

State the slope perpendicular to y = -1/3x - 4

Slope = 
$$-\frac{1}{3}$$
  
Ans = +3

State the slope perpendicular to y = 3x + 6

Slope = 
$$\frac{3}{1}$$
  
Ans =  $-1$ 

State the slope perpendicular to 2y - 4 = 3x + 6

Slipe= 
$$\frac{3}{3}$$
  $3x+6+4$   
Ans =  $-\frac{3}{3}$   $3x+10$   
 $y=\frac{3}{3}x+5$ 

State the slope perpendicular to 3(y - 1) = 3x + 6

Slope= 
$$\begin{vmatrix} 3(y-1) = 3x+6 \\ -1 & 3y-3 = 3x+6+3 \\ -1 & 3y=3x+9 \\ -1 & 3y=3x+9 \\ -1 & 3y=1x+3 \end{vmatrix}$$