



#1

## Finding slope from a TABLE

(FROM WS 51)

Find the difference between each Y-value and between each X-value

X	Y
-2	3
-1	5
0	7
1	9
2	11
5	17

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

$$\frac{6}{3} = 2$$

#2

## Finding slope from a TABLE

(FROM WS 51)

Find the difference between each Y-value and between each X-value

X	Y
-3	5
-2	2
-1	-1
0	-4
1	-7
6	-22

$$m = -3$$

$$\frac{-15}{5} = -3$$

# #8

## Finding slope from a TABLE

(FROM WS 51)

Find the difference between each Y-value and between each X-value

X	Y
-1	1
1	2
3	3
5	4
7	5
13	8
15	9

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

$$\frac{3}{6} = \frac{1}{2}$$

#9

## Finding slope from a TABLE

(FROM WS 51)

Find the difference between each Y-value and between each X-value

X	Y
-5	10
-2	5
1	0
4	-5
7	-10

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

# **Slope- Intercept Form**

$$y = mx + b$$

**m = slope**

**b = y-intercept**

**\*where the equation  
crosses the y-axis**

# Slope and Y-intercept from an EQUATION

(From Slope Practice #30)

1.  $y = -2x - 4$      $m = \underline{-2}$      $b = \underline{-4}$

5.  $4x + y = 3$      $m = \underline{-4}$      $b = \underline{3}$   
 $\frac{-4x \quad -4x}{y = -4x + 3}$

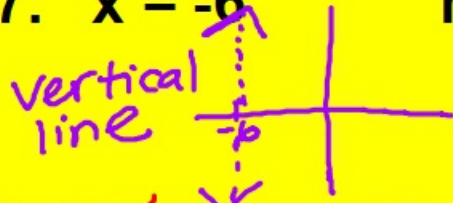
6.  $x = -y - 4$      $m = \underline{-1}$      $b = \underline{-4}$   
 $\frac{+4 \quad +4}{x + 4 = -y}$   
 $\frac{-x - 4 = y}{y = -x - 4}$   
 $\frac{x = -y - 4}{+y \quad +y}$   
 $\frac{-x + y = -4}{-x \quad -x}$   
 $y = -x - 4$



# Slope and Y-intercept from an EQUATION

(From Slope Practice #30)

7.  $x = -6$        $m = \underline{\quad \emptyset \quad}$        $b = \underline{\quad \emptyset \quad}$



9.  $10x + 5y = 25$        $m = \underline{\quad -2 \quad}$        $b = \underline{\quad 5 \quad}$

$$\begin{array}{r} -10x \\ \hline 5y = -10x + 25 \\ \hline \frac{5y}{5} = \frac{-10x}{5} + \frac{25}{5} \end{array} \quad y = -2x + 5$$

11.  $x - 2y = 3$        $m = \underline{\quad 1/2 \quad}$        $b = \underline{\quad -3/2 \quad}$

$$\begin{array}{r} x \\ \hline -2y = -x + 3 \\ \hline \frac{-2y}{-2} = \frac{-x}{-2} + \frac{3}{-2} \end{array} \quad y = \frac{1}{2}x - \frac{3}{2}$$

②  $y = 1x$        $m = \underline{\quad 1 \quad}$        $b = \underline{\quad 0 \quad}$

③  $y = -3$        $m = \underline{\quad 0 \quad}$        $b = \underline{\quad -3 \quad}$

