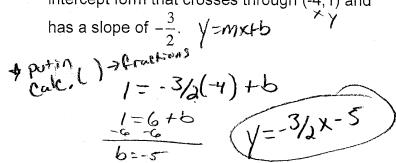
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Name:	401	

## Slope-Intercept Form

EX1: Write an equation of a line in slopeintercept form that crosses through (-4,1) and



**D** What about through (9,5) and  $m = \frac{5}{3}$ ?

$$S = 9(5/3) + 6$$

$$S = 15 + 6$$

$$V = \frac{5}{3} \times \frac{3}{3} \times \frac{3}{10}$$

EX2: Write an equation of a line in slopeintercept form that crosses through:

EX3: Write an equation of a line in slopeintercept that passes through (-8,-7) and is

perpendicular to 
$$y = 4x - 3$$
.  $M = 4$   
 $-7 = -\frac{1}{4}(-8) + 5$   
 $-1 = 2 + 5$   
Now through (2,3) and is perpendicular to  $y = -\frac{4}{3}x + 5$ .  $1 = \frac{3}{4}$ 

$$y = -\frac{4}{3}x + 5. \quad \bot = 3/4$$

$$3 = 3/4(a) + b \quad \boxed{Y = 3/4 \times \frac{3}{2}}$$

$$3 = 3/2 + b$$

$$-3/2 - 3/2 \qquad b = 3/2$$

Ex4: Write an equation of a line in slopeintercept form that crosses through

(+5,8) and is parallel to 
$$y = \frac{-2}{-5}x + 3$$
. Some  $8 = \frac{-3}{5}(-5) + 6$   $-2/5$  Slope  $9 = 2+6$   $-2/5 \times +6$ 

Now through (6,-3) and is parallel to  $y = \frac{5}{6}x + 20$ .  $M = \frac{5}{6}$ -3=5/6(6) tb -3=576 b=-8

EX5: Write an equation of a line in slope form that has a slope of  $\frac{2}{3}$  and passes through (5,-3).  $-3=5(7/3)+5^3$  3=10/3+5 3=10/3+5

Write an equation of a line in slope intercept form given the information provided:

1.) 
$$m = -5$$
;  $(-3, -8)$   
 $-8 = -5(-3) + b$   
 $-8 = -5(-3) + b$   
 $-8 = -3$ ;  $(-3)$   
 $-3 = \frac{4}{5}$ ;  $(10, -3)$   
 $-3 = \frac{8+6}{5}$   
 $-3 = \frac{8+6}{5}$   
 $-4 = -\frac{1}{3}$ ;  $(6, -8)$   
 $-8 = -\frac{1}{3}$ ;  $(6, -8)$   
 $-\frac{1}{3}$ ;  $(-6, 5)$ ;  $(-6, 5)$ ;  $(-6, 5)$ ;  $(-6, 5)$ ;  $(-6, 5)$ ;  $(-6, 5)$ ;  $(-6, 2)$ ;  $($ 

1.) Through (5,6) || 
$$y = \frac{3}{4}x - 1$$

11.) Through (5,6)  $|| y = \frac{3}{4}x - 1$   $G = \frac{3}{4}(5) + 6$   $G = \frac{3}(6) + 6$   $G = \frac{3}{4}(5) + 6$   $G = \frac{3}{4}(5) + 6$   $G = \frac{3}{4}$ 

Write an equation of a line in slope intercept form given the information provided:

12.) 
$$m = \frac{2}{3}; (-5,4)$$

$$4 = \frac{2}{3}(-5) + 6$$

$$6 = \frac{2}{3}(-5) + 6$$

$$7 = \frac{2}{3}(-5) + 6$$

b=-4/3

13.) 
$$m = -\frac{5}{3}(1,6)$$
  $(6 = -5/3(1) + b)$   
 $b = \frac{23}{3}$   
 $\sqrt{2} = -\frac{5}{3} \times +\frac{23}{3}$