Algebra I pg 372	
y=-=x+9	y= 5x+3
<u>y=4</u>	28) 5=-X+3
18) 9=-2×+3	y= \frac{5}{2}x-5
$y=-\frac{4}{3}x$	y=-\frac{1}{2}x-2
$y=-\frac{1}{3}X+\frac{10}{3}$	y=-1
$y = -\frac{3}{4}x - \frac{13}{4}$	
	pg 372 $ y = -\frac{2}{5}x + 9 $ 14) $ y = 4 $ 16) $ y = -2x + 3 $ 18) $ y = -\frac{4}{3}x $ $ y = -\frac{1}{3}x + \frac{10}{3} $ $ y = -\frac{3}{4}x - \frac{13}{4} $

(3,0)
$$y = mx + b$$

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

$$y = -\frac{1}{3}x + b$$
We temporarily use x and y to find b.
$$0 = -\frac{1}{3}(3) + b$$

$$0 = -1 + b \text{ Once we find } b, \text{ we write an equation with } m \text{ and } b, \text{ but we take the (3,0) back out and use } x \text{ and } y.}$$

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

$$0 = \frac{1}{3}(6) + b$$

$$0 = 2 + b$$

$$-2 = b$$

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

14) 
$$M = -\frac{2}{5}$$
 (5,7)  
 $y = Mx + b$   
 $y = -\frac{2}{5}x + b$   
 $7 = -\frac{2}{5}(5) + b$   
 $7 = -2 + c$   
 $7 = -2 + c$ 

18) 
$$(0,3)(2,-1)$$
  
 $y=mx+b$   
 $m=\frac{y_2-y_1}{x_2-x_1}=\frac{3-(-1)}{0-2}=\frac{4}{-2}=-2$   
 $y=-2x+b$   
 $3=-2(0)+b$   
 $3=b$   
 $y=-2x+3$ 

$$y = mx + b$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - 4}{3 - (-3)} = \frac{-8}{6} = -\frac{4}{3}$$

$$y = -\frac{4}{3}x + b$$

$$y = -\frac{4}{3}x + b$$

$$y = -\frac{4}{3}(3) + b$$

22) 
$$(-2,4)(4,2)$$
 $M = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2}{6} = -\frac{1}{3}$ 
 $y = -\frac{1}{3}x + b$ 
 $y = -\frac{1}{3}x + \frac{1}{3}x + \frac{1}{$ 

24) 
$$(-3,-1)(1,-4)$$
  
 $y=mx+b$   
 $m=\frac{-4-(-1)}{1-(-3)}=\frac{-3}{4}$ 

$$\begin{array}{c|c}
y = -\frac{3}{4}x + b \\
-4 = -\frac{3}{4}(1) + b \\
-\frac{16}{4} = -\frac{3}{4} + b \\
-\frac{16}{4} + \frac{3}{4} = b \\
-\frac{13}{4}x - \frac{13}{4}x - \frac{13}{4}
\end{array}$$

$$M = \frac{y_2 - y_1}{x_1 - x_1} = \frac{0 - (-s)}{3 - 0} = \frac{5}{3}$$

32) 
$$y-int: -2$$
 (0,-2)  $x-int: -4$  (-4,0)

$$M = \frac{y_z - y_1}{x_2 - x_1} = \frac{0 - (-2)}{-4 - 0} = \frac{2}{-4} = \frac{1}{2}$$

