Problems with homework?

Page 384 - 385 #4, 5, 6, 7, 8, 12, 13, 22, 23

13. a)
$$4x+y-10=0$$
 $y=mx+b$
 $y=-4x+10$ $y=-10x+10=0$
 $y=-10x+10=0$
 $y=-10x+10=0$
 $y=-10x+10=0$
 $y=-5x+8=0$
 $y=-5x+8=0$
 $y=-5x+8=0$
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 $y=-5x+8=0$
 $y=-5x+8=0$
 $y=-5x+8=0$

$$\frac{1}{10x+2y-16} = 0$$

$$\frac{1}{10x+2y-$$

#22 a)
$$2x+3y-6=0$$
 b) $2x-3y+6=0$

$$3y=-2x+6$$

$$3=\frac{-2}{3}x+2$$

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

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

$$y=\frac{2}{3}x+2$$
Slope negative $y=\frac{2}{3}x+2$

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

b)
$$2x-3y+6=0$$

 $-3y=-2x-6$
 $-3=-3x+2$
 $y=\frac{2}{3}x+2$
 $m=positive$
 $y.int 2$

$$(0,1) (3,-8)$$

$$M = y_2 - y_1$$

$$x_2 - x_1$$

$$= \frac{1 - (-8)}{0 - 3}$$

$$= \frac{9}{-3}$$

$$= -3$$

$$y-y_1 = m(x-x_1) *$$

 $y=mx+b$
 $y=-3x+1$

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Check Up... Finding the Equation of a Line

- #1. Determine the equation of the line given that...

 (Put equations in slope-y-intercept Form)
- a) the line passes through the points (-3, 5) & (-2, -7) $m = \underbrace{y_1 y_1}_{X_1 X_1} \qquad \underbrace{y y_1 m(x x_1)}_{X_1 X_1}$
- b) the line passes through the point (-2, 3) has the same slope as the line 3x 2y -5 =0
- c) the line has an x-intercept of 4 and a y-intercept of -3

d) passes through the point (-3,0) and is perpendicular to the line 3x-12y+2=0

#2. Determine the equation of each of the following lines...

(Express equations in GENERAL FORM)

a) passing through the ordered pair (-2, 3) and with slope 5/3

b) passing through the ordered pairs (6, -1) and (0, -3)

c) passing through the point (1, 2) and parallel to the line 2x - 5y + 1 = 0

#3. Show that the triangle whose vertices have the coordinates (3, 3), (8, 17) & (11, 5) is a right triangle.



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