- 1. Graph the following lines on the same set of axes. Then state the equation of each line.
 - a) through the point A(-6,1) with a slope of $\frac{1}{2}$
 - b) through the point B(3,1) with a slope of $3 \longrightarrow \text{slope} = \frac{3}{1}$ Answer: y=3x-8
 - c) through the point C(-8,8) and parallel to the -56pc=-3line $y=-\frac{3}{4}x+20$ Answer: $y=-\frac{3}{4}x+2$
 - d) through the point D(6,2) and perpendicular to the line $y = -\frac{2}{3}x - 91$ Answer: $y = \frac{3}{2}x - 7$
- 2. Graph the following lines on the same set of axes. Then state the equation of each line.
 - a) through the points A(5,2) and B(1,-2)

Answer: $\underline{y} = \frac{1}{4} \times -3 \longrightarrow \underline{y} = \times -3$

- b) through the points C(-4,-3) and D(2,-6)Answer: $\underbrace{\mathbf{y}}_{\mathbf{z}} = \underbrace{\mathbf{z}}_{\mathbf{z}} \times -\mathbf{s} \xrightarrow{\mathbf{y}}_{\mathbf{z}} = \underbrace{\mathbf{z}}_{\mathbf{z}} \times -\mathbf{s}$
- c) with a y-intercept of 2 and passing through the point E(-1,-1) Answer: $y = \frac{3}{1} \times +2 \longrightarrow y = 3 \times +2$
- d) with an x-intercept of -6 and passing through the point F(3,-3) Answer: $y = \frac{1}{3} \times -2 \rightarrow y = -\frac{1}{3} \times -2$







$$\begin{array}{c} \begin{array}{c} x_{1} & y_{1}^{M} \\ (f_{1}, g_{1}^{M}) & m = -\frac{H}{3} \\ (f_{2}, g_{1}^{M}) & m = -\frac{H}{3} \\ (f_{2}, g_{2}^{M}) & m = -\frac{H}{3} \\ (f_{2}, g_{2}^{M}) & m = -\frac{H}{3} \\ (f_{2}, g_{2}^{M}) & g_{2}^{M} & g$$

6) a)
$$(-2, -5)$$

(onverte y=mx+b b/L
you need to determine the
slope.
 $2x + y - 5 - 2x + 5 = 0 - 2x + 5$
 $y = -2x + 5$
Slope will be the same SINKE
the ling are parallel.
 $m = -2$ $(-2, -5)$
 $y = -2(x - (-2)) - 5$
 $y = -2(x - (-2)) - 5$

7) a) Well use the equation below to determine the x-int.

$$3x-7y+12=0$$

To find the x-int sub "0" for "y"
 $3x-7(0)+12=0$
 $3x+12^{-12}=0-12$
 $\frac{3x}{3}=\frac{-12}{3}$
 $x=-y$ $(-4,0)$

$$\frac{5tep 2}{6x + 8y - 5 - 6x + 5} = 0 - 6x + 5$$

$$\frac{5tep 2}{8} = \frac{-6x + 5}{8} = 0 - 6x + 5$$

$$\frac{8y = -6x + 5}{8} = \frac{-6x + 5}{8}$$

$$\frac{y = -3}{4} \times + \frac{5}{8}$$

