1) (5 points) Solve the following equation.

$$8 - 4(2x - 3) + 5x = 3(4x - 3) - 3$$

$$8 - 8 \times +12 +5 \times = 12 \times -9 - 3$$

$$-3 \times +20 = 12 \times -12$$

$$-15 \times = -32$$

$$X = 32$$

23) (5 points) Solve the inequality given below. Graph the solution set.

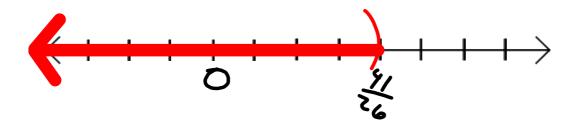
$$4(5x-7)-6 < -2(3x-4)-1$$

$$20x-28-6 < -6x+8-1$$

$$20x-74 < -6x+7$$

$$26x < 4/1$$

$$x < \frac{4}{26}$$



3 4) (4 points) Solve the following Equation.

$$|5x-11|+2=7$$

$$|5x-11|+2=7$$

$$5x-11=5$$

$$5x-11=-5$$

$$5x=16$$

$$5x=6$$

$$x=16$$

$$x=6$$

$$x=6$$

$$x=6$$

45) (5 points) Solve and graph

$$|5x + 2| \le 28$$

$$-28 \le 5 \times +2 \le 28$$

$$-20 \le 5 \times \le 26$$

$$-6 \le \times \le \frac{26}{5}$$

5 (5 points) Solve and graph

6) (5 points) Find the equation of the line passing through the points (-2,5) and (-1,-3).

$$M = \frac{1}{2} - \frac{1}{2} = \frac{-3 - 5}{-1 - (-2)} = \frac{-8}{1} = -8$$

$$1 = -8x + 6$$

7 8) (5 points) Find the equation of the line passing through the point (-4, -3) and that is parallel to the line 4x - 7y = 9.

$$4x - 7y = 9$$

$$- 7y = -4x + 9$$

$$y = \frac{4}{7}x - \frac{9}{7}$$

$$A_{1} = \frac{4}{7}$$

$$- 3 = \frac{4}{7}(-4) + 6$$

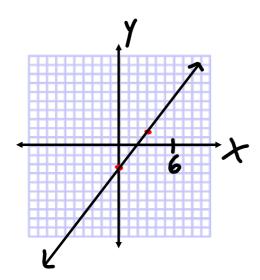
$$- 3 = -\frac{16}{7} + 6$$

$$y = \frac{4}{7}x - \frac{5}{7}$$

$$b = -\frac{5}{7}$$

89) (5 points) Graph the linear equation given below.

$$4x - 3y = 7$$



$$-3Y = -4x + 7$$

$$-3Y = -4x + 7$$

$$Y = 4x - 3$$

912) (5 points) Graph the inequality given below.

