

NO WORK = NO CREDIT!!!.....SHOW ALL WORK!

1-4. Solve each of the following equations or inequalities and sketch the solution on a number line.

$$\frac{x+3}{2} = x-4$$



Solution: \_\_\_\_\_

2.  $-2 \leq 3x+1 < 13$



Solution: \_\_\_\_\_

3.  $3(x-2)+5 \geq 7+x$



Solution: \_\_\_\_\_

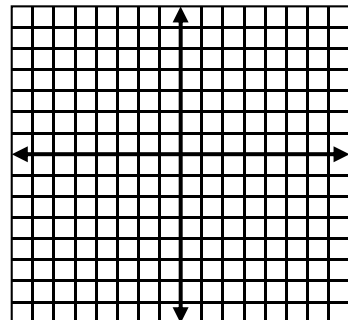
4.

$$|x+2| + 1 = 3x+2$$



Solution: \_\_\_\_\_

5 Graph the solution to  $y-x \leq 2$  and  $x-y < 1$



6. Rearrange these quadratic equations into standard form and label a, b, c.

$$3(x - 4) = 6x^2 + 2$$

a=\_\_\_\_\_ b=\_\_\_\_\_ c=\_\_\_\_\_

7.  $\frac{7}{3}, \frac{38}{15}, \frac{41}{15} \dots$

a) Write an explicit formula to describe the above sequence.

b) Write a recursive formula to describe the above sequence.

8. Write the equation of the line in STANDARD FORM

Slope:  $-\frac{2}{3}$ , point (-4,7)

9. Solve the system. Label solution as consistent, inconsistent, dependent and/or independent. (use all that apply).

$$\begin{cases} x - y = 2 \\ x + 2y = -6 \end{cases}$$

Solution :

Description: