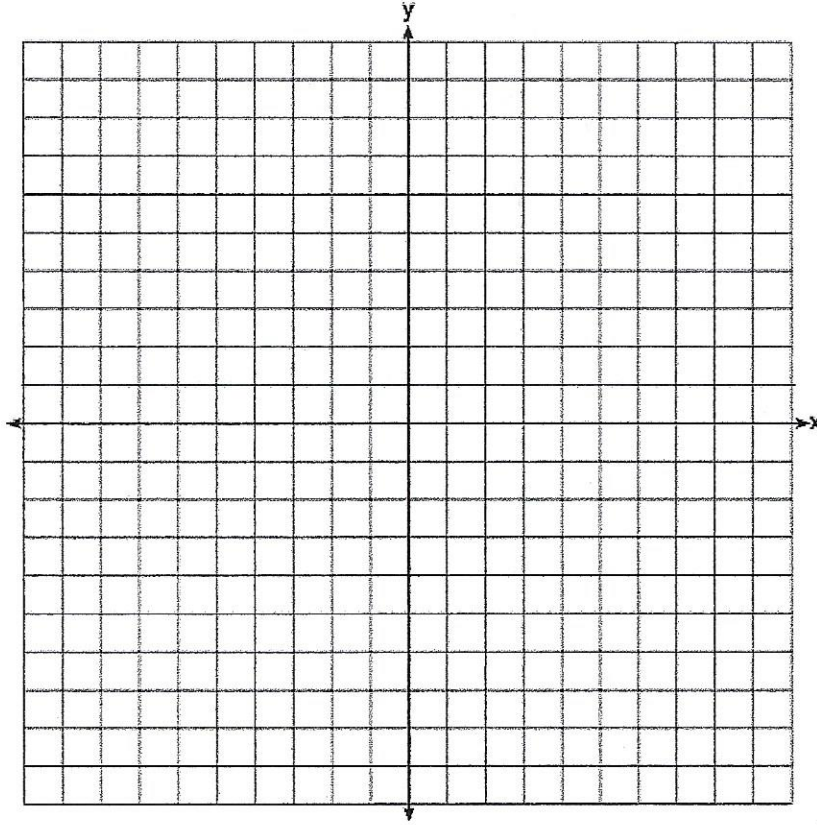


Name \_\_\_\_\_

Do Now #4

36. Graph the inequalities:  $2y < 3x + 4$  and  $y \geq -x - 1$

State one point that satisfies both inequalities.



37.

$$p(x) = \begin{cases} x+3; & -5 \leq x < -1 \\ x^2; & -1 \leq x \leq 2 \\ -x+4; & 2 < x \leq 5 \end{cases}$$

Given the function  $p(x)$  defined as:

- Find the value of  $p(-2)$ .
- Sketch the graph of  $p(x)$ .
- At what  $x$ -value in the domain does  $p(x)$  have its absolute maximum value?

