≤ solid < dashed > shade < shade
≥ line > line ≥ above ≤ below

Algebra 2 Name_____

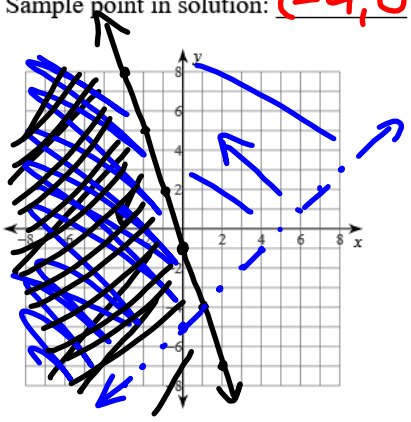
5.1D Graphing Systems of Inequalities (with Delta Math) Period____

Sketch the solution to each system of inequalities. You must draw the graph on paper and answer on Delta Math.

1) $y \leq -3x - 1$ m= -3 b= -1 (mx + b; $-\frac{3}{1}$)

$y > x - 5$ m= 1 b= -5

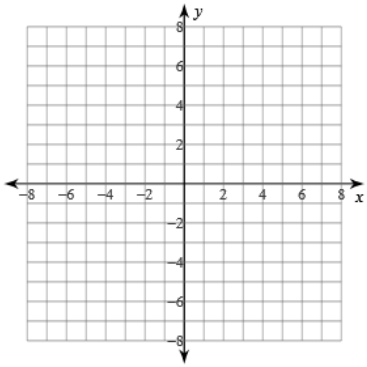
Sample point in solution: (-4, 0)



2) $y \geq -3x - 2$ m=_____ b=_____

$y \geq 2x - 7$ m=_____ b=_____

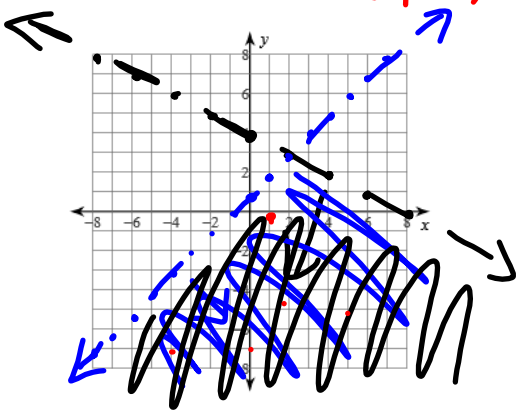
Sample point in solution: _____



3) $y < -\frac{1}{2}x + 4$ m= $-\frac{1}{2}$ b= 4

$y < x + 1$ m= 1 b= 1

Sample point in solution: (1, 0)



4) $y \geq -x + 2$ m=_____ b=_____

$y > \frac{1}{3}x + 6$ m=_____ b=_____

Sample point in solution: _____