Name_____Date_____Hour_____

Worksheet 6.5 – Graphing Linear Inequalities in Two Variables – Textbook pages 360-366

LEVEL 1 Check to see if each ordered pair is a solution to the inequality. Show your work.

1) $x + y < -1$

(-3, -1)

(0, 2)

2) $y - x \geq 4$

(-2, 2)

(0, 4)

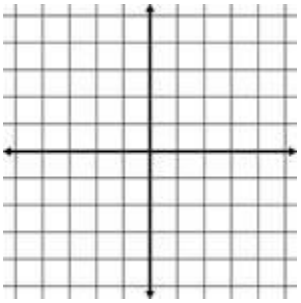
3) $6x + 2y < 24$

(3, 2)

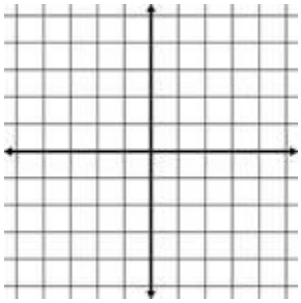
(5, -3)

LEVEL 2 Sketch the graph of each inequality on the coordinate plane. Show your work.

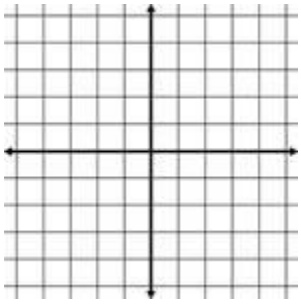
4) $x < 2$



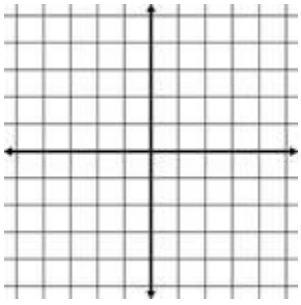
5) $x + 4 > 9$



6) $y \geq -4$

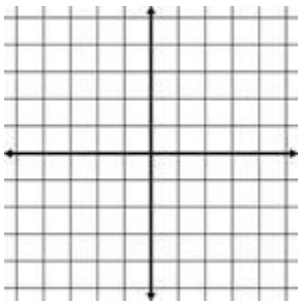


7) $-2x \leq -6$

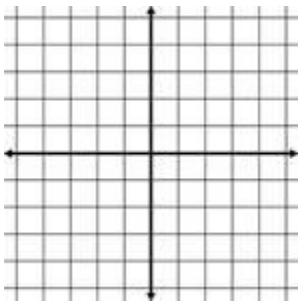


LEVEL 3 Sketch the graph of each inequality on the coordinate plane. Show your work.

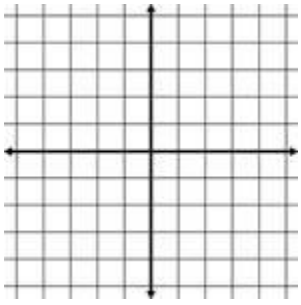
8) $x + y < 3$



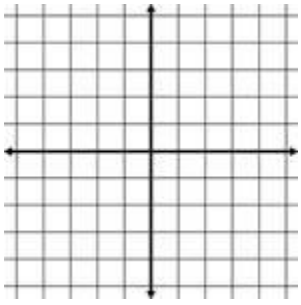
9) $x - y \leq -5$



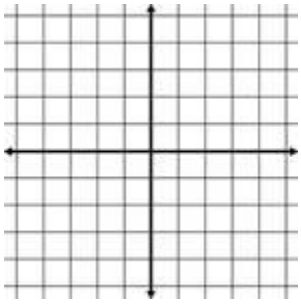
10) $y + 5x > -6$



11) $2x + 3y > 12$



12) $3x - y \geq 2$



LEVEL 4

13)
You and your friends go to a bagel shop for breakfast. Together you have $15 to spend. Each bagel costs $.95 and each glass of juice costs $1.50. Let ***b*** represent the number of bagels you can buy. Let ***j*** represent the number of juices you can buy.

a) Write an inequality that represents the number of bagels ***b*** and the number of juices ***j*** that you can afford.

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b) Sketch a graph of the inequality from (a)