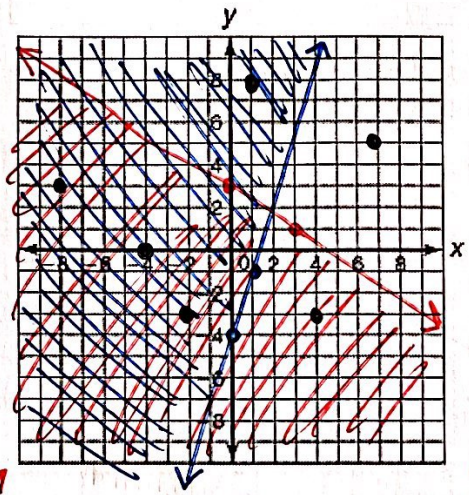
Day 3 – Graphing Systems of Inequalities – Practice

Graph each inqequality. Name two points that are solutions and name two points that are not solutions.

1. $y \le -\frac{2}{3}x + 3$ solid, below
   $y \ge 3x - 4$ solid, above

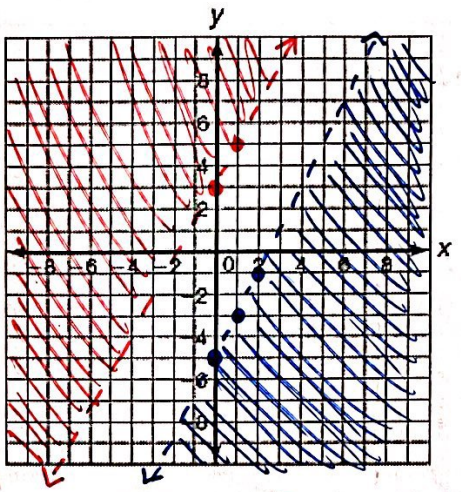


will vary

Solutions:
(-4,0)
(-8,3)
(-2,-3)
Not Solutions:
(7,5)
(1,8)
(4,-3)

solution area

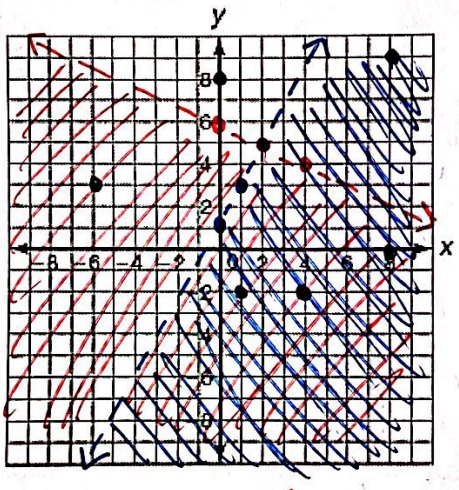
2. $y > 2x + 3$ dashed, above
   $y < 2x - 5$ dashed, below



Solutions:
none
Not Solutions:
Every point

no solution area

3. $y < -\frac{1}{2}x + 6$ dashed, below
   $y < 2x + 1$ dashed, below



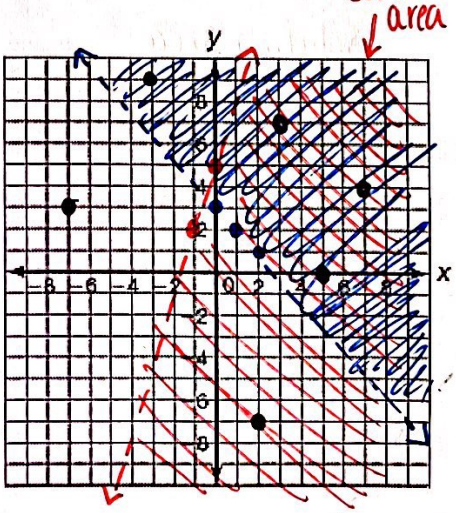
will vary

Solutions:
(4,-2)
(8,0)
(1,-2)
Not Solutions:
(-6,3)
(0,8)
(8,9)

solution area

4. $y - 3x < 5 \rightarrow y < 3x + 5$ dashed, below
   $y + x > 3 \rightarrow y > -x + 3$ dashed, above

solution area



will vary

Solutions:
(3,7)
(5,0)
(7,4)
Not Solutions:
(2,-7)
(-7,3)
(-3,9)