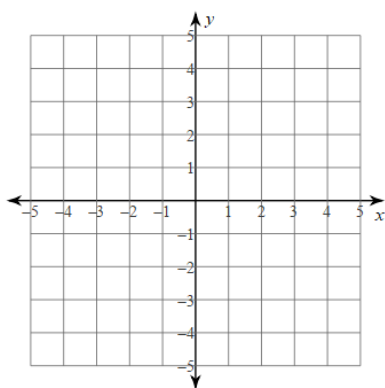Algebra 1

Name_____

Graphing Systems of Inequalities HW

Date_____

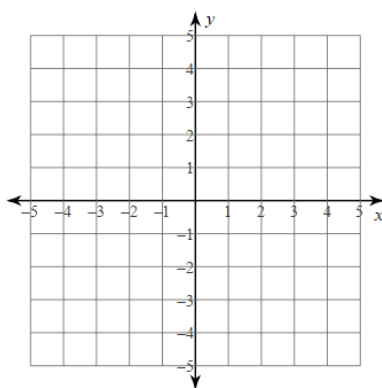**Sketch the solution to each system of inequalities.**

1) $y < 2x + 3$
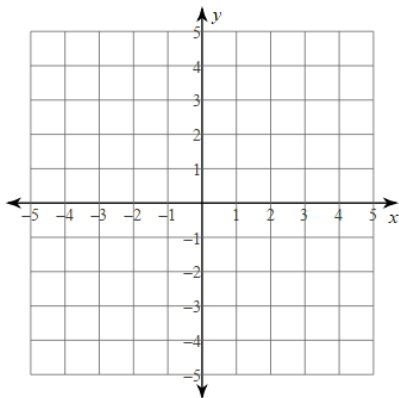 $y \geq -\dfrac{1}{2}x - 2$

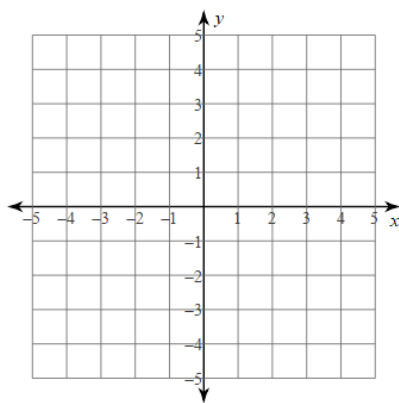
2) $y < 3$
   $y < \dfrac{2}{3}x + 1$
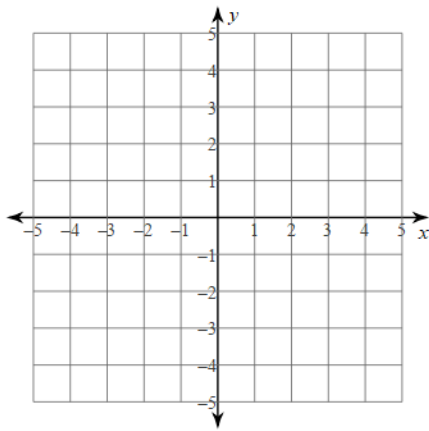

3) $y \leq -\dfrac{1}{2}x - 1$
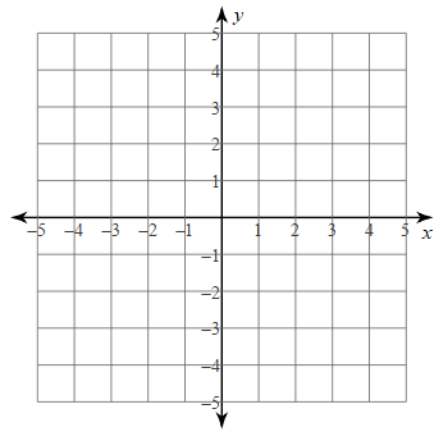 $y \leq -2x + 2$

4) $2x + y > -3$
   $2x + y > 2$

5) $x \geq 3$
   $x - 3y < 6$

6) $x - 2y < 4$
   $x + y \geq 1$

SOUVENIRS Emily wants to buy turquoise stones on her trip to New Mexico to give to at least 4 of her friends. The gift shop sells stones for either $4 or $6 per stone. Emily has no more than $30 to spend.

a. Make a graph showing the numbers of each price of stone Emily can purchase.

b. List three possible solutions.

Turquoise Stones