

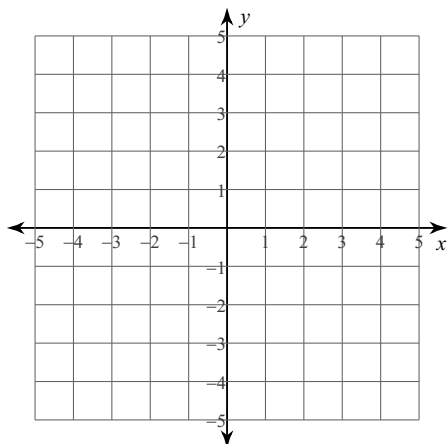
5.2 Homework

Date _____ Algebra _____

Solve each system by graphing. Be sure to LABEL both lines AND THE SOLUTION!

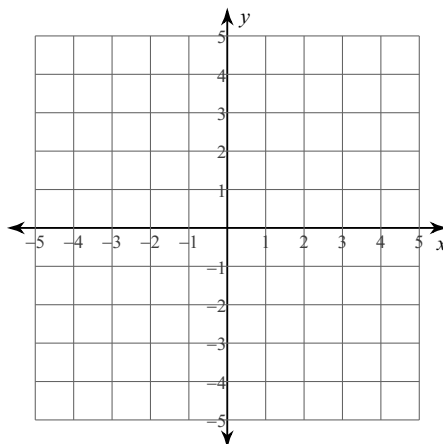
1) $y = -\frac{1}{2}x - 1$

$y = x - 4$



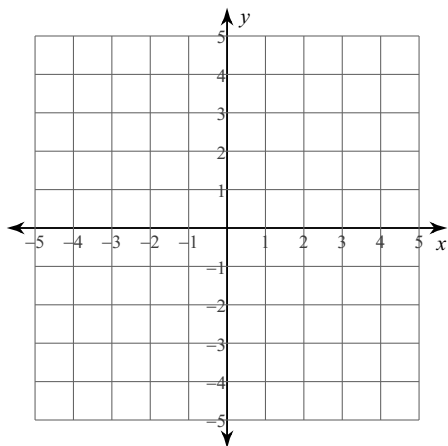
2) $y = -\frac{1}{2}x - 3$

$x = 2$



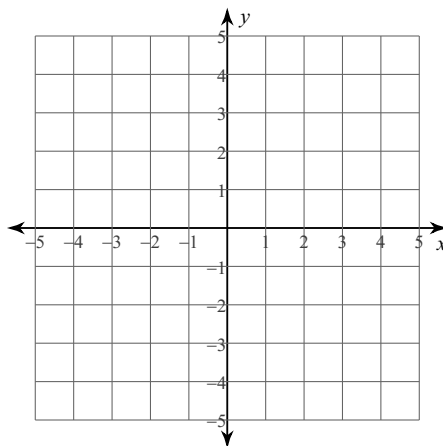
3) $2x + y = -4$

$2x - 3y = -12$



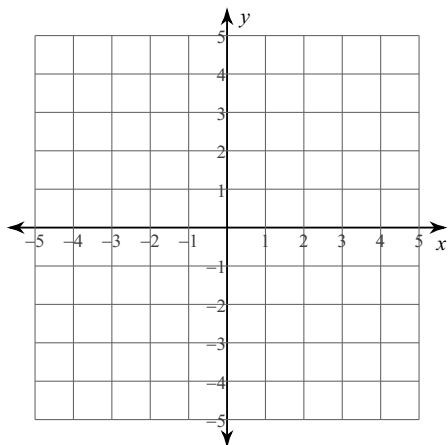
4) $-x = y + 2$

$y = -x - 4$

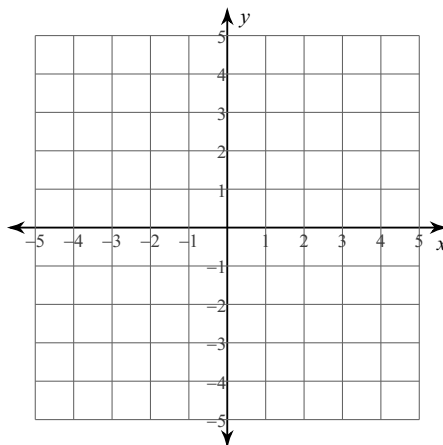


Sketch the solution to each system of inequalities. Label both lines and the solution!

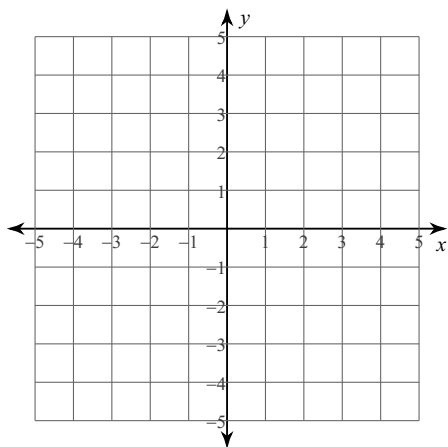
5) $y \leq -\frac{5}{3}x - 3$
 $y < -\frac{1}{3}x + 1$



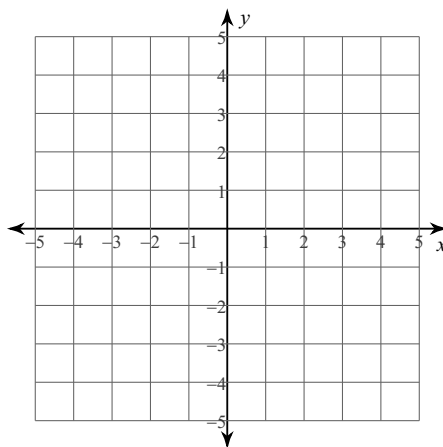
6) $y > \frac{1}{3}x + 1$
 $y > \frac{1}{3}x - 2$



7) $4x + 3y \geq -6$
 $4x + 3y < -9$



8) $x + 2y > 6$
 $5x - 2y < 6$



9) Describe the difference between the solution to a linear system of equation and a linear system of inequalities: (write at least 2 full sentences)