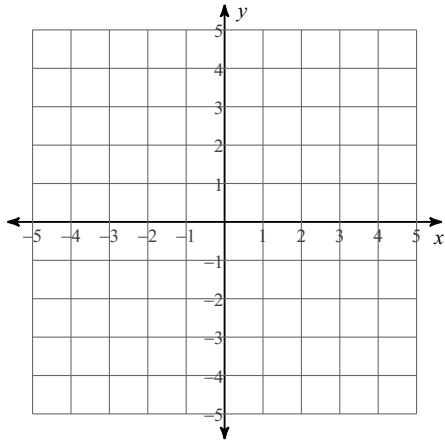


7.2.D1 ~ Systems of Linear Inequalities

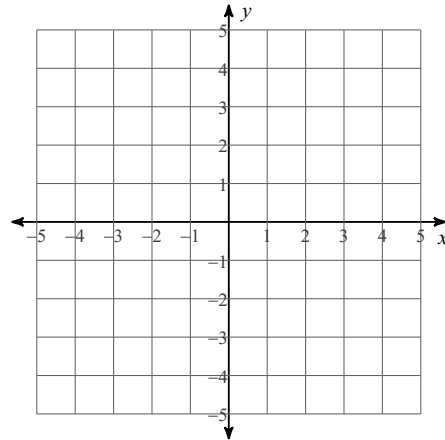
Past due on _____ Period _____

Graph each system of linear inequalities and identify two solutions. Refer to the 7.2 example "Graphing a System of Linear Inequalities" in the Chapter 7 Summary.

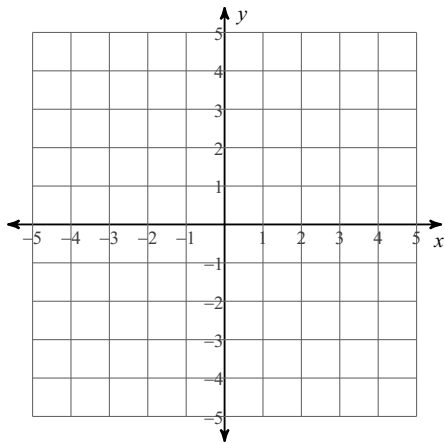
1) $2x - 3y > -3$
 $2x - y \leq 3$



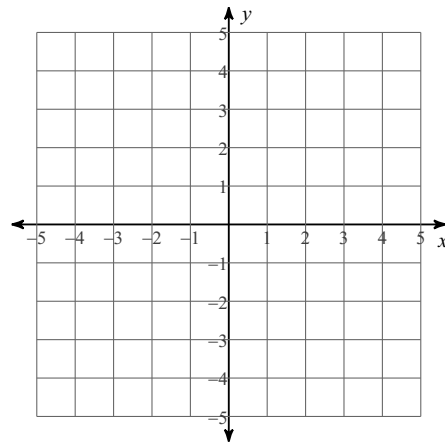
2) $2x - 3y > 3$
 $2x + 3y \geq 9$



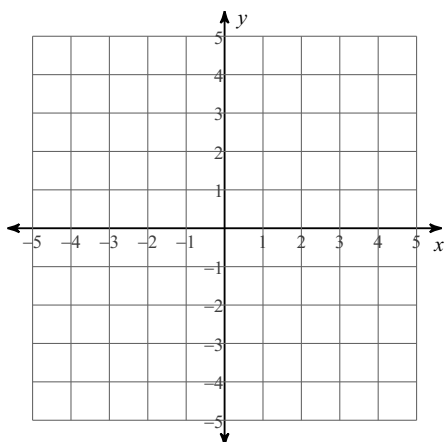
3) $y < 2x + 2$
 $y \geq 2x - 3$



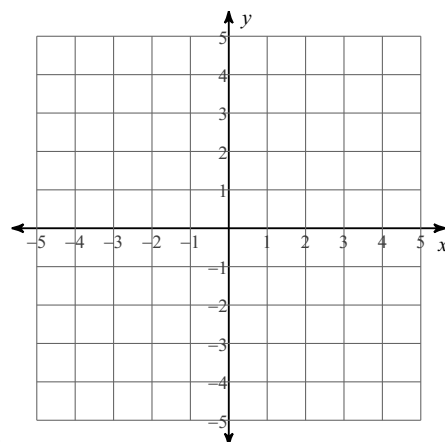
4) $y < -6x + 3$
 $y \geq -x - 2$



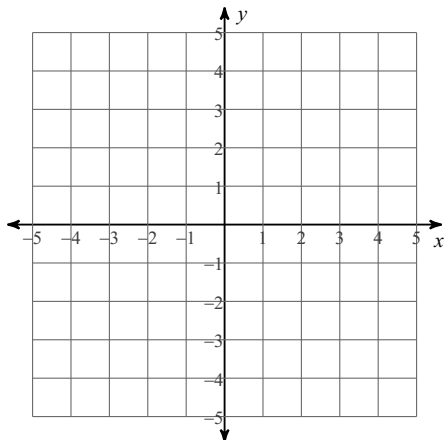
5) $x \leq 3$
 $y \leq -\frac{1}{3}x - 2$



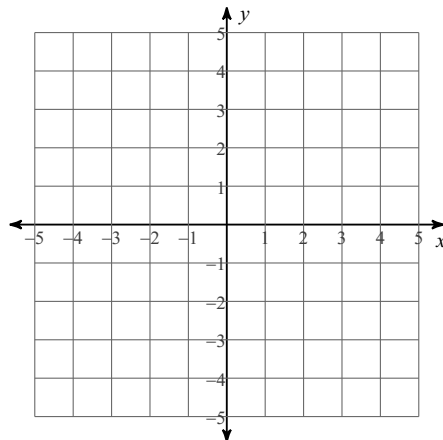
6) $y \geq \frac{3}{2}x + 2$
 $y \geq -x - 3$



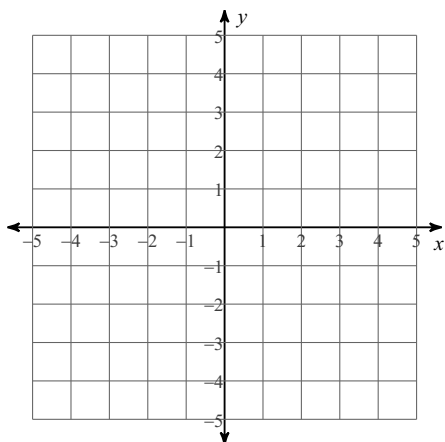
7) $5x - 2y \geq -6$
 $x - 2y \leq 2$



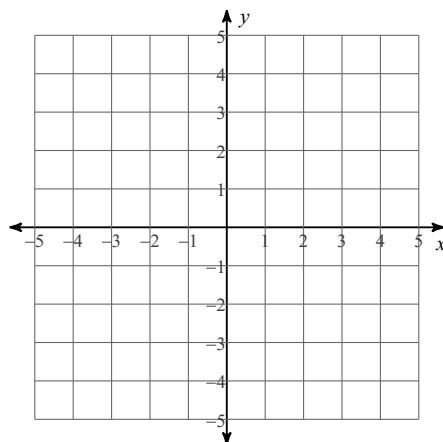
8) $2x - y < 1$
 $x - 2y \leq -4$



9) $x + 3y > -6$
 $x - y \geq -2$

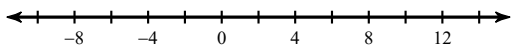


10) $x - y > 1$
 $x + 3y < 9$

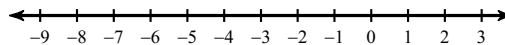


Solve each compound inequality and graph its solution set. Refer to the 2.4 example “Solving Compound Inequalities” in the Chapter 2 Summary.

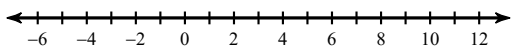
11) $3 - 4x < -33$ or $1 - x \geq 6$



12) $-27 \leq 6x + 9 \leq 3$



13) $6 + 9x \geq 69$ or $7 - 10x > 37$



14) $-63 < -3 - 6a \leq 51$

