

Name: _____

Band: _____

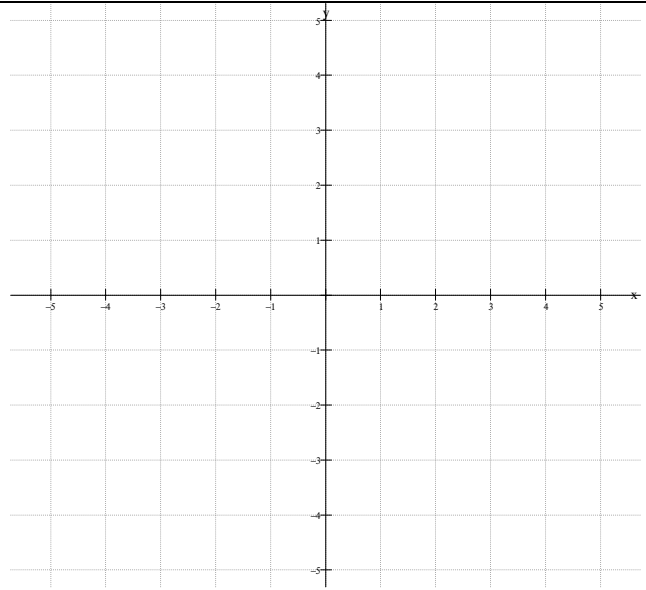
Algebra II | Packer Collegiate Institute | 2008-2009

Systems of Inequalities (Practice)

Solve the following systems of inequalities! Make sure your points of intersection are correct, as are your graphs.

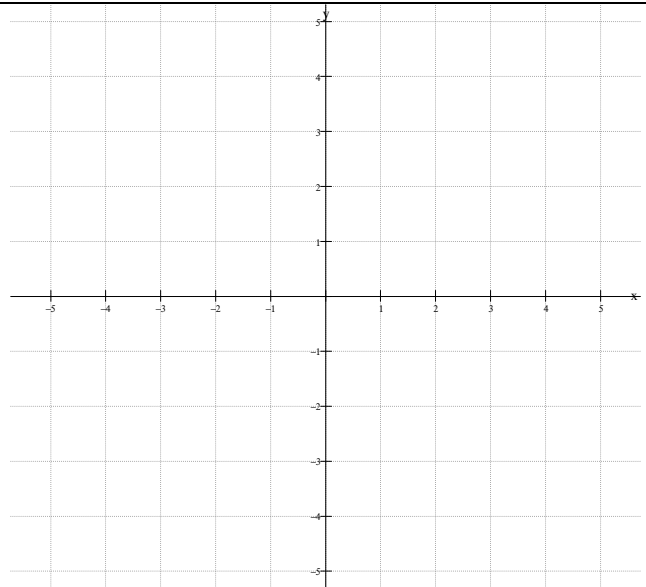
(1)

$$\begin{cases} y \geq \frac{5}{2}x + 2 \\ y \geq \frac{1}{2}x - 2 \end{cases}$$



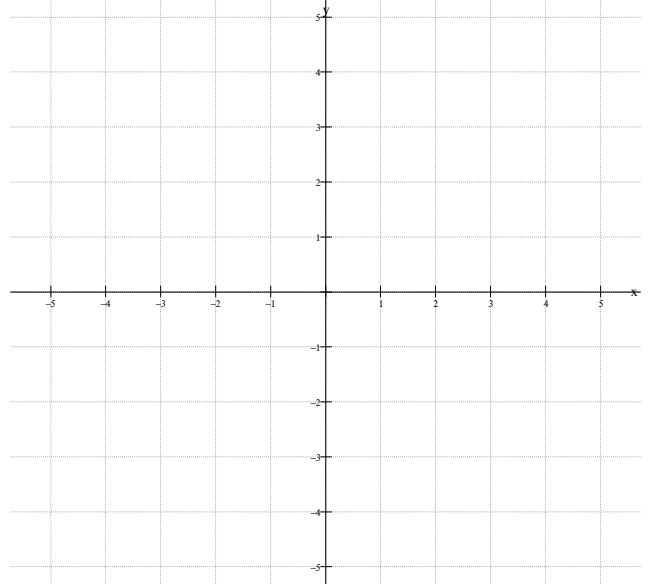
(2)

$$\begin{cases} y < 3 \\ y \geq 4x + 1 \end{cases}$$



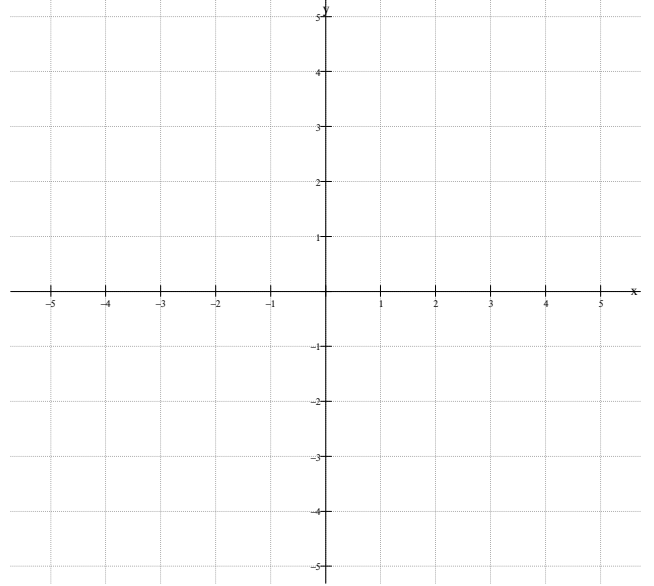
(3)

$$\begin{cases} 3x + y > -3 \\ x + 2y < 4 \end{cases}$$



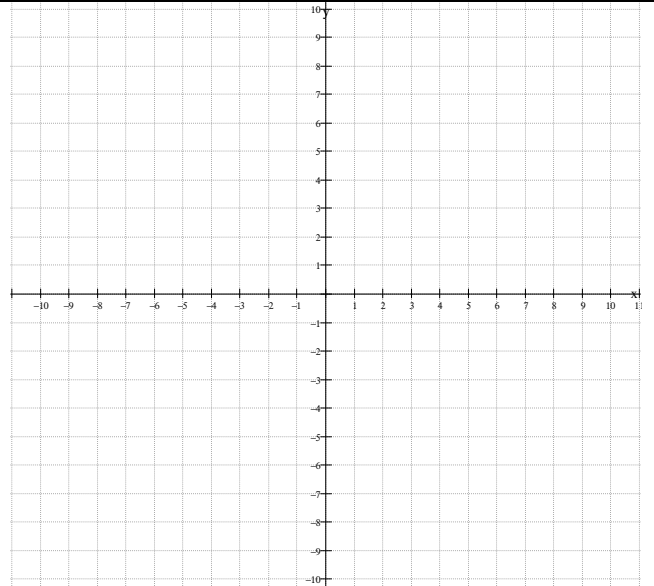
(4)

$$\begin{cases} x + y > -3 \\ 5x - y \leq 3 \end{cases}$$



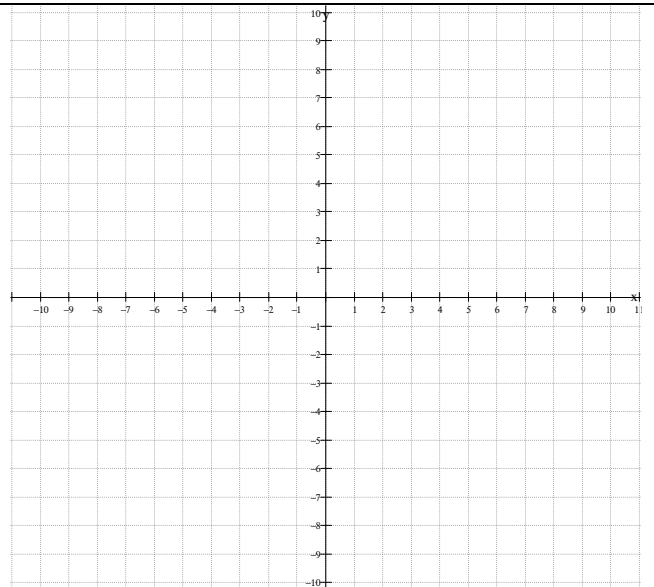
(5)

$$\begin{cases} x^2 - x - 6 > y \\ 2x - 2 < y \end{cases}$$



(6)

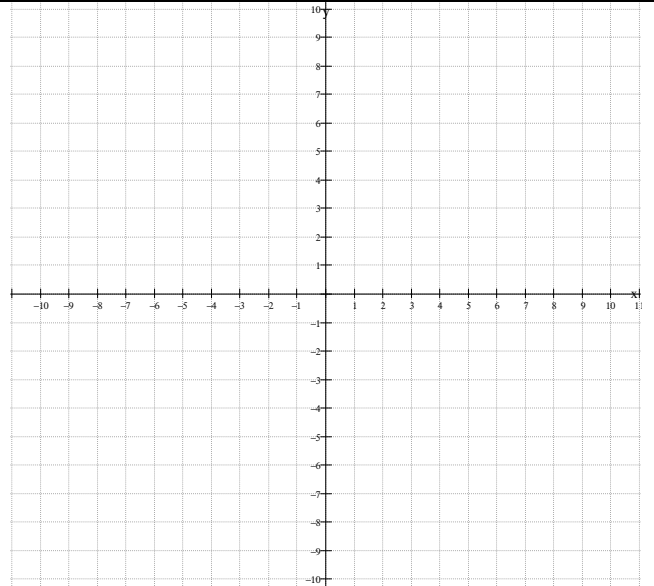
$$\begin{cases} x^2 - 2x - 1 > y \\ x - 3 \geq y \end{cases}$$



(8)

$$y < -x^2 + 2x + 4$$

$$x + y > 4$$



(9) Come up with your own quadratic-linear inequality and solve it.

