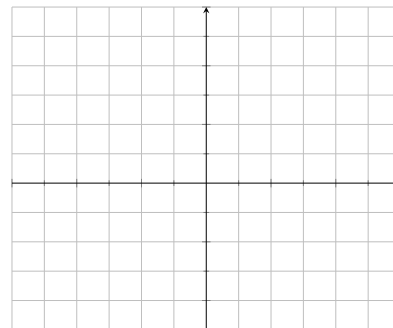


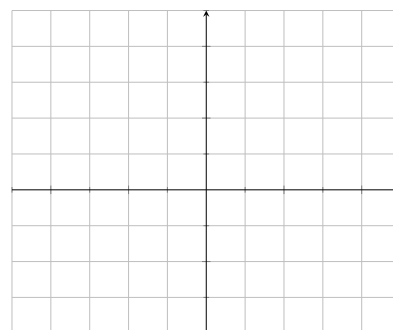
MAT 171 - CLASS NOTES - Section 8.5: Systems of Inequalities

Graph the following:

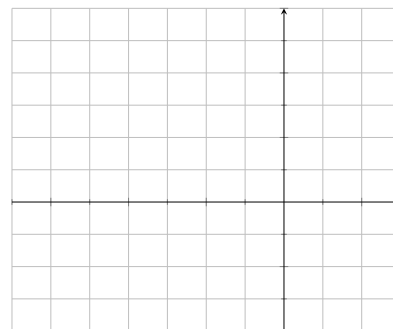
1) $3x - 6y \leq 12$



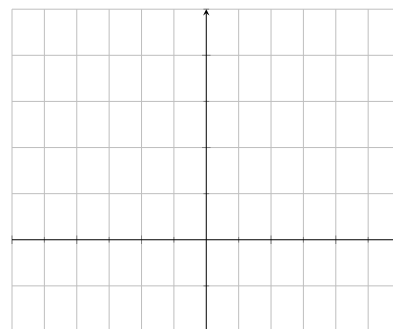
2) $x \leq -3$



3) $(x + 2)^2 + (y - 1)^2 < 16$

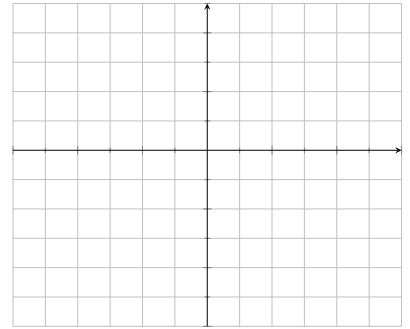


4) $y > x^2 - 1$



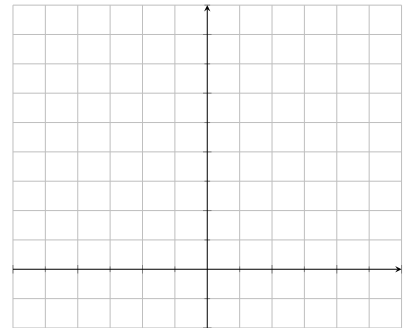
5)

$$\begin{cases} 2x - y \leq 4 \\ 3x + 2y > -6 \end{cases}$$



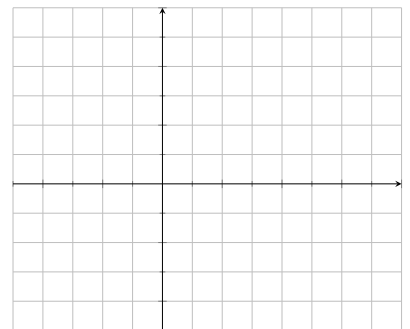
6)

$$\begin{cases} 4x - 5y \geq -20 \\ x \geq -3 \end{cases}$$



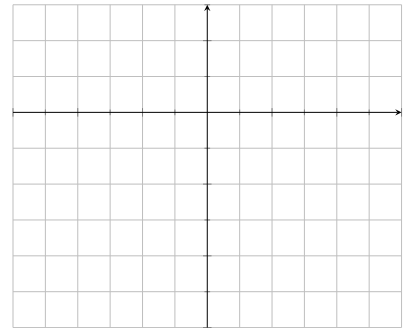
7)

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



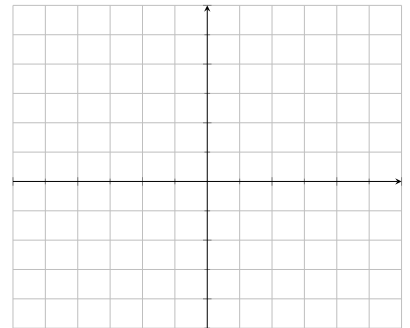
8)

$$\{y \geq x^2 - 4$$



9)

$$\begin{cases} (x + (y - 1))^2 < 16 \\ (x + (y - 1))^2 \geq 4 \end{cases}$$



10)

$$\begin{cases} 2x + y \leq 6 \\ x + y > 2 \\ -1 \leq x \leq 2 \\ y < 3 \end{cases}$$

