

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## MA 162

Week 9 Recitation Worksheet (Tuesday)

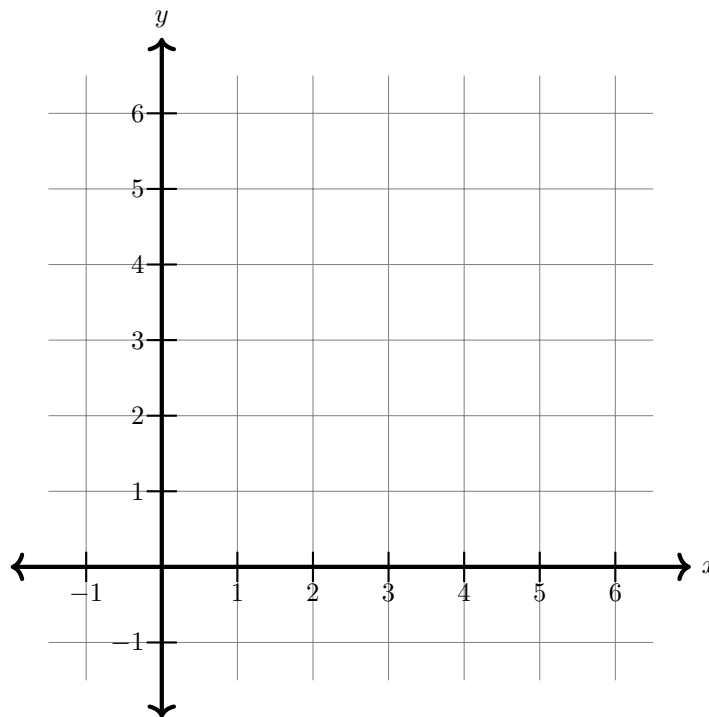
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**You must show all work to receive full credit.**

This worksheet serves as an introduction to **feasible regions** and **corner points**.

1\*. Graph the feasible region for the following system of inequalities.

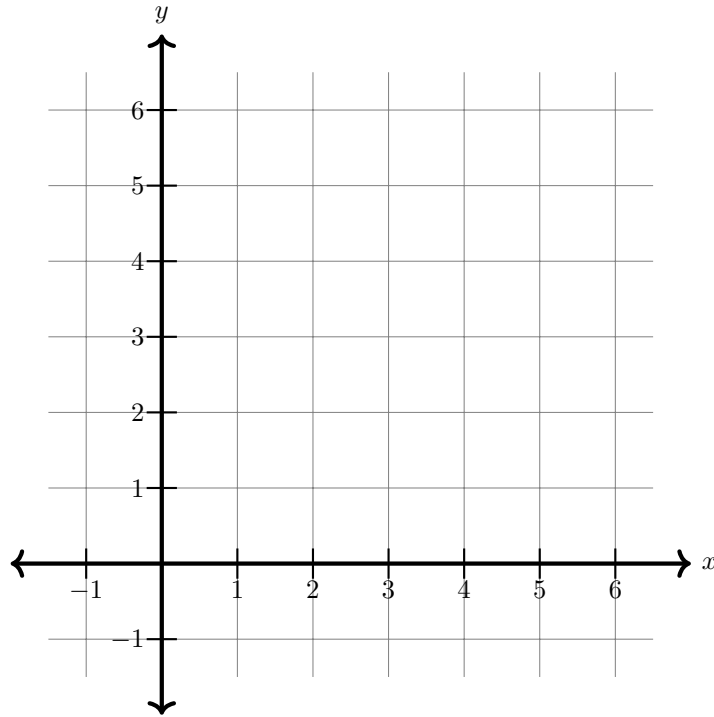
$$\begin{cases} 2x + 3y \leq 12 \\ x - y \geq -1 \\ x \geq 0 \\ y \geq 0 \end{cases}$$



Determine the corner point(s) of the feasible region.

2. Graph the feasible region for the following system of inequalities.

$$\begin{cases} 2x - y \leq -2 \\ 3x + 5y \geq 15 \\ x \geq 0 \\ y \geq 0 \end{cases}$$



Determine the corner point(s) of the feasible region.