

Name _____

Finite Mathematics (Math 10120), Spring 2020

Quiz 6 Friday, April 24, 2020

Using the given axes, sketch the feasible region of the following system of inequalities.

$$\begin{aligned}x + y &\leq 6 \\2x - y &\leq 3 \quad \rightarrow \quad y \geq 2x - 3 \\x &\geq 0; \quad y \geq 0\end{aligned}$$

Be sure to

- label all the lines so I know which equation each corresponds to;
- shade the region that is the feasible set.
- label the corners of the feasible region with the coordinates of that point (you don't have to label points that are not corners of the feasible region)

I don't want you just copying from a graphing calculator, so I would like to see your work **at least** for finding the points of intersection of the lines.

