

Name: _____
MATH 108
Fall 2021
HW 6: Due 11/04

"I used to sell furniture for a living. The trouble was, it was my own."
—Les Dawson

Problem 1. (10pt) As accurately as possible, sketch the feasible region given by the constraints

$$\begin{aligned}x + y &\leq 10 \\ 2x - y &\geq 2 \\ x, y &\geq 0\end{aligned}$$

Is this region bounded or unbounded?

Problem 2. (10pt) As accurately as possible, sketch the feasible region given by the constraints

$$\begin{aligned}x + y &\geq 4 \\ \frac{1}{2}x + 3y &\geq 7 \\ x, y &\geq 0\end{aligned}$$

Is this region bounded or unbounded?