Name: _____

MATH 108
Fall 2021
HW 6: Due 11/04

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

$$x + y \leq 10$$
$$2x - y \geq 2$$
$$x, y \geq 0$$

Is this region bounded or unbounded?

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

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

Is this region bounded or unbounded?