Lab 10: Linear Programming

In this lab you are to find a geometric solution to a simple LP problem with two variables x1 and x2:

max x1 + x2

S.t.

4x1 -x2 <= 8

2x1 + x2 <=10

5x1 -2x2 >= -2

X1, x2 >=0.

Q1: [10pnts]: Plot the feasible region

Q2:[10pnts] Find the optimum solution

Q3: [10pnts] Find an additional constrain that makes this an in feasible problem