## Spring 2020, Math 621: Preliminary Problem Set 6 Due: Thursday, March 5th, 2020 Polytopes and Polyhedra

**Preliminary problems.** These problems should be completed before discussion on Thursday.

(P1) Draw the convex hull P of

$$\{(0,0),(1,2),(1,3),(2,1),(3,1),(3,3)\}$$

in  $\mathbb{R}^2$ . How many vertices does this polytope have?

(P2) Find the face lattice of the polytope P in the previous problem.