

Spring 2019, Math 596: Preliminary Problem Set 4
Due: Thursday, February 21th, 2019
Polytopes

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

(P1) Draw the 2-dimensional simplex, cube, and octohedron.

(P2) Draw the convex hull of

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

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