## Spring 2020, Math 621: Preliminary Problem Set 7 Due: Thursday, March 12th, 2020 Ehrhart Polynomials and Ehrhart Series

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

- (P1) Find a rational form for the Ehrhart series Ehr(P; z) of each of the following polytopes P.
  - (a)  $P = conv\{(0,0), (2,0), (1,1)\}.$

(b)  $P = \{(a, b) \in \mathbb{R}^2 : a, b \ge 0, a + b \le 2\}.$