Fall 2022, Math 621: Preliminary Problem Set 7
Due: Thursday, March 10th, 2022
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 $\mathrm{Ehr}(P; z)$ of each of the following polytopes P.

(a) $P = \mathrm{conv}\{(0,0), (2,0), (1,1)\}$.

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