# Math 5362 - Algebraic Number Theory Homework 6 

Due - Sunday 26 April 2020 11:59pm

1. Determine the fundamental unit of $\mathcal{O}_{K}$ for
(a) $K=\mathbb{Q}[\sqrt{2}]$;
(b) $K=\mathbb{Q}[\sqrt{3}]$;
(c) $K=\mathbb{Q}[\sqrt{5}]$; and
(d) $K=\mathbb{Q}[\sqrt{6}]$.
2. Prove Theorem 7.14
