## MATH 252: EXERCISE 8.1.A

Problem 8.1.A. Let $R=\mathbb{Q}[x]$. Using the Euclidean algorithm, compute a greatest common divisor $d(x) \in R$ of $a(x)=x^{3}+2$ and $b(x)=x^{2}-1$ and express $d(x)$ as a linear combination of $f(x)$ and $g(x)$.

