

Tutorial Worksheet 10

1) Study The Euclidean Algorithm again, and check how proposition 6.2.2 is applied.

2) Study the uniqueness part of the fundamental theorem of arithmetics again.

3) Let $a, b \in \mathbb{N}$ and $d = \gcd(a, b)$. Prove that $\gcd(\frac{a}{d}, \frac{b}{d}) = 1$.

4) Prove that $\sqrt[3]{20}$ is an irrational number.