

COMMUTATIVE ALGEBRA – PROBLEM SET 5

1. Find a primary decomposition of the ideal (6) in the ring $\mathbb{Z}[i\sqrt{5}]$.
2. Problem 2, page 55, in the text.
3. Problem 5, page 55, in the text.
4. (Optional) Problem 6, page 55 in the text; do also problem 26, pages 14-15. Since we're here, have a look at problem 27 as well.