

ALGEBRA I, FALL 2015, HOMEWORK 4

Due: Thursday, November 12, in class.

Problems from Basic Algebra 1:

2.7: 10

2.10: 2

2.11: 2, 5

2.14: 7

Hint: One can use that 2 is not a square modulo 10 to prove that 2 is an irreducible element of $\mathbb{Z}[\sqrt{10}]$.

2.15: 2

2.16: 1, 2, 3

3.4: 4

3.5: 3, 5