

## **Rings and Fields**

### **Test 2.**

20 February 2008

1. Is  $\mathbb{Z}[\sqrt{-5}]$  a Euclidean domain? Justify your answer. You can use any results from lectures if you state them explicitly.
2. List all the maximal ideals of the following rings (no proof is required):

$\mathbb{R}, \mathbb{R}[t], \mathbb{C}[t], \mathbb{Z}/6, \mathbb{Z}/17, \mathbb{Z}/2008.$