

**Homework 6 due Friday 3/4**

1. (12 points) p. 109, problem 26
2. (10 points) p. 109, problem 27
3. (10 points) p. 109, problem 28
4. (15 points) Proof Euclid's second postulate using the incidence axioms, the betweenness axioms and the congruence axioms. This is an easy proof, so I expect full details.
5. (10 points) give an example of a line and a circle in  $\mathbb{Q}^2$  which do not meet in  $\mathbb{Q}^2$  but meet in  $\mathbb{R}^2$ .