$\rm MA3201$ - Problem sheet 2

Time and place: Thursday October 25th $08^{\underline{15}} - 10^{\underline{00}}$ in F3.

Problem 1^{*}. Let R be a commutative ring and x an element in R. Show the following: x is invertible if and only if x is not an element in any maximal ideal in R.

Problems from the book:

Page	Exercise number
209	$2, 6^*$
211	1
248	2
252	5, 8
260	2. 6*

Problems marked with \ast can be handed in at the lecture Monday September 22nd.