

**MATH 421 COMPLEX ANALYSIS,  
FALL TERM 2004 PROBLEMS 12**

*Return by Monday 22nd November*

1. Do question 10.7 on page 127. Note that the last sentence is incorrect (take  $p(z)=z$  and  $z=1$ ). It should read: Deduce that  $\sup_{z \in \gamma(0;1)} \left| p(z) - \frac{1}{z} \right| \geq 1$ .
2. Do question 11.1 on page 140.