

MATH 433/533 – Homework #11  
extra problems

due 17 April 2009

- 1) Prove the Corollary on page 55.
- 2) Prove that Equation (22) is the adjoint equation of (24').
- 3) Prove the second half of Theorem 9, page 56, namely that Equation (22) can be made self-adjoint by multiplying through by  $h(x)$  as given in Equation (26').