**Mathematics for Chemists          7$^{th}$ week Hilary Term 2005**

**http://timmel.chem.ox.ac.uk/lectures/**

**Differential Equations**

1. Solve question 12-25 (9. DE) and questions 5-8 (10. Appl. of DE) in the problem booklet.

2. Solve the following Differential Equations:

a) $y'' + 5y' + 6y = e^{-x} + e^{-2x}$, $y(0) = 4$, $y'(0) = -9.5$

b) $(1 + x^2)y'' + 2xy' = x^3$