

**MthSc 208: Differential Equations (Fall 2011)**  
**In-class Worksheet 3b: Method of undetermined coefficients**

NAME:

Find the general solution to the following 2nd order differential equations.

1.  $y'' + 2y' - 3y = 0$

2.  $y'' + 2y' - 3y = e^{3t}$

3.  $y'' + 2y' - 3y = 6t^2 + t - 2$

4.  $y'' + 2y' - 3y = 5 \sin 3t$