

# Math 2080: Differential Equations

## Worksheet 3.3: The 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.  $y'' + 2y' - 3y = 2t^2$

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

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