

**Math 2080: Differential Equations**  
**Worksheet 3.2: Equations with constant coefficients**

**NAME:**

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

1.  $y'' - 3y' - 4y = 0$

2.  $y'' - 4y' + 13y = 0$ . (Write your answer using sines and cosines, rather than complex exponentials.)

3.  $y'' + 10y' + 25y = 0$ .