

NAME:

Home Work 7.  
MAP 2302 - Differential Equations

Solve the following ODE:

1.  $y^{(2)} + 9y = 0$

2.  $y^{(2)} + y = 0$ ;  $y(0) = 1$ ,  $y^{(1)}(0) = 0$

3.  $y^{(4)} + 8y^{(2)} + 16y = 0$

4.  $y^{(3)} - 3y^{(2)} + 9y^{(1)} + 16y = 0$

5.  $y^{(4)} + 5y^{(2)} - 36y = 0$