

Name:

1. (3pts) Give the general solution for the differential equation $y'' + y' - 6y = 0$.

2. (3pts) Give the general solution for the differential equation $y'' - 8y' + 16y = 0$.

3. (4pts) Solve the following initial value problem.

$$y'' + 2y' + 2y = 0$$

$$y(0) = 0$$

$$y'(0) = 4$$