- 1. Write the general solution for each equation.
 - a. y'' 2y' + 2y = 0

b. y'' + 2y' - 8y = 0

c.
$$y'' - 10y' + 25y = 0$$

d. 4y'' + 9y = 0

2. Solve the initial value problem y'' + 4y = 0; y(0) = 0; y'(0) = 1.