Math 3280 Worksheet 22:
Linear homogeneous ODEs with constant coefficients

Group members (2 to 4): _____

(1) Solve the initial value problem

$$y^{(4)} + 2y'' + y = 0,$$
$$y(0) = 0,$$
$$y'(0) = 1,$$
$$y''(0) = 2,$$
$$y'''(0) = 3.$$