Math	3280	Worksheet 23:	Second	order	linear	homogeneous	ODEs	with	constan	ıt
coefficients.										

Group members (2 to 4):

(1) Find the general solution to y'' - y' - 20y = 0.

(2) Use the general solution to solve the initial value problem y(0) = 1, y'(0) = 1.

(3) Find a differential equation ay'' + by' + cy = 0, where a, b, and c are constants, such that $y = C_1 + C_2 e^x$ is the general solution.