

Name: _____ Sort #: _____

Worksheet 7: Intro to 2nd Order Linear ODEs

MATH 2310, Spring 2019

Grade: _____ / 40

1. (20 pts) Solve the initial value problem

$$y'' + y' - 2y = 0, \quad y(0) = 1, \quad y'(0) = 1$$

2. (20 pts) Solve the IVP and describe the solution's behavior as t increases.

$$6y'' - 5y' + y = 0, \quad y(0) = 4, \quad y'(0) = 0$$