

Name: _____ Sort #: _____

Worksheet 11: Variation of Parameters

MATH 2310, Spring 2019

Grade: _____ / 40

1. (20 pts) Find the general solution of the differential equation

$$y'' + y = \tan(t), \quad 0 < t < \frac{\pi}{2}$$

2. (20 pts) Find the general solution of the differential equation

$$y'' + 4y' + 4y = t^{-2}e^{-2t}, \quad t > 0$$