

Quiz 11

MATH 2280, ORDINARY DIFFERENTIAL EQUATIONS, SPRING 2024

NAME:

A#:

Problem 1. Exercise 27.5c (10 points) Determine the Laplace using the tables provided. You will have to use two identities.

$$t e^{4t} \operatorname{step}_3(t)$$

Solution:

Problem 2. Exercise 28.8d (10 points) Using the Laplace transformation and translation identity, solve the following IVP.

$$y'' + 8 y' + 17 y = 0$$

with $y(0) = 3$ and $y'(0) = -12$.

Solution: