Practice Quiz 11 Math 2280, Ordinary Differential Equations, Spring 2024

NAME: A#:

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

$$t \ e^{4t} \ sin(3t)$$

Solution:

Problem 2. Exercise 28.8a (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: