Practice Quiz 12 Math 2280, Ordinary Differential Equations, Spring 2024

NAME:

A#:

Problem 1. Exercise 28.4a (10 points) Solve the following initial value problem using the Laplace transform.

$$y'+9\ y=0,$$

with y(0) = 4.

Solution:

**Problem 2. Exercise 29.4c** (10 points) Using convolution compute the inverse Laplace transform of the following.

$$\frac{1}{s\ (s^2+4)}$$

Solution:

If 
$$5(s) = \frac{1}{5} \cdot \frac{1}{5(s)} \cdot \frac{1}{5(s)$$