

## Practice Quiz 11

MATH 2280, ORDINARY DIFFERENTIAL EQUATIONS, SPRING

2024

NAME:

A#:

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

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

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**Solution:**

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

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

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

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**Solution:**