NAME:

Solutions

A#:____

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

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

with y(0) = 4 and y'(0) = 4.

Solution:

Problem 2. Exercise 29.5b (10 points) For the following initial value problem find the corresponding transfer function, H(s), and the impulse response function, h(t), and write down the corresponding convolution integral for the solution.

$$y'' - 4 y = f(t)$$

with y(0) = 0 and y'(0) = 0.

Solution:

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