EEL 301 Homework #1

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Question 1. (Ogata, Table A-1 on Pg. 864 #20) Find the Laplace transform of $f(t) = e^{-at} \sin \omega t$.

Question 2. Using the Laplace transform method, solve the differential equation,

$$\ddot{x} + 2\dot{x} + 2x = 0, x(0) = 0, \dot{x}(0) = 10.$$

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