Name:
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MAP 2302.4787
Cyr

Quiz 4
You must show all work to receive full credit!!

Problem 1. (2 points) Write the <u>form</u> of a particular solution suggested by the method of undetermined coefficients. DO NOT find the coefficients.

(a) $y'' + 2y' = t^2 + t$

(b) $y'' - 4y' + 4y = te^{2t} - \sin(2t)$

Problem 2. (3 points) Use variation of parameters to find a general solution to the differential equation
$$y'' + 2y' + y = e^{-t}.$$