

Problem 21

In each of Problems 21 through 28:

- (a) Determine a suitable form for $Y(t)$ if the method of undetermined coefficients is to be used.
- (b) Use a computer algebra system to find a particular solution of the given equation.

$$y'' + 3y' = 2t^4 + t^2e^{-3t} + \sin 3t$$