

Problem 28

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.

$$y'' + 2y' + 5y = 3te^{-t} \cos 2t - 2te^{-2t} \cos t$$