

## Problem 12

In each of Problems 1 through 13:

- (a) Find the solution of the given initial value problem.
- (b) Draw the graphs of the solution and of the forcing function; explain how they are related.

$$y^{(4)} - y = u_1(t) - u_2(t); \quad y(0) = 0, \quad y'(0) = 0, \quad y''(0) = 0, \quad y'''(0) = 0$$