
```
function dudt = up2(t,u, omega)

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%                                PROJECT 1 (yp.m file)
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% CLASS: MA266-074
% PROFESSOR: DR. MARIANO
%
% DESCRIPTION: THIS PROGRAM HAS THE DIFFERENTIAL EQUATION THAT WE
% ARE GOING TO SOLVE FOR IN ANOTHER PROGRAM
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

DIFF EQN

```
%method 1
dudt = zeros(2,1);
dudt(1) = u(2);
dudt(2) = cos(omega*t) - 1/5.*u(2) - (u(1) + 1/5*u(1).^3);
```

Not enough input arguments.

Error in up2 (line 18)
dudt(1) = u(2);

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