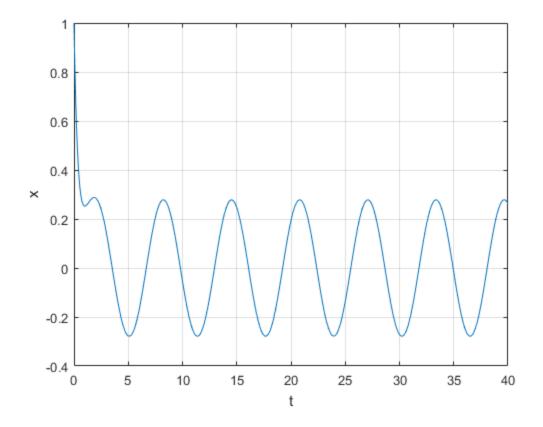
```
%====== Homework #1
_____
응
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  script hw1.m
  Script to perform the work associated with Homework #1. There is
% enough to get the code running for the sample problem. It is up to
% you to generate the remaining code.
%======= Homework #1
_____
doPart = 'a'; % Set to 'a' or 'b' as desired.
switch doPart
 case 'a'
   tspan = [0, 40];
   x0 = 1;
   [t, x] = ode45(@hwla, tspan, x0);
   figure(1);
   plot(t, x);
   xlabel('t');
   ylabel('x');
   grid on;
 case 'b'
   tspan = [];
   x0 = [ ; ];
               % Should be a column vector.
   [t, x] = ode45(@hw1b, tspan, x0);
   figure(1);
   plot(x(:,1), x(:,2));
   xlabel('x');
   ylabel('y');
   grid on;
   figure(2);
   plot(t, x(:,3) * 180/pi); % Factor is to convert to degrees from
radians.
   xlabel('t');
   ylabel('\theta');
end
```



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