```
 1
 2   R = 1; % radius of tank[m]
 3   L = 3; %height of tank[m]
 4   h = 0.0:1 %level of fluied[m]
 5
 6   v = p1*R^2*h
 7
 8   plot(h,v,'k');
 9   xlabel('level of fluid[m]');
10   ylabel('volume inside the tank[m^3]');
```