

C:\Users\Black\Documents\Files\Serial

Editor - C:\Users\Black\Documents\Files\Serial\ans.m

```
1 function dmdt=ans(t,m) 2
2 -   dmdt(1)=-((15/500)*m(1))+((15/1000)*m(2))+1;
3 -   dmdt(2)=((15/500)*m(1))-((18/1000)*m(2))+((3/400)*m(3));
4 -   dmdt(3)=((13/1000)*m(2))-((13/400)*m(3));
5 -   dmdt=dmdt';
6 -   end
```

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C:\Users\Black\Documents\Files\Serial

Editor - C:\Users\Black\Documents\Files\Serial\Untitled2.m

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```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - [t,Q]=ode45('ans', [0:1:1200], [0 0 0]);
6 - figure(1)
7 - subplot(3,1,1)
8 - plot(t,Q(:,1),'go-')
9 - xlabel('time (min)')
10 - ylabel('volume (litres)')
11 - legend('Tank 1', 'Location', 'South')
12 - grid on
13 - axis tight
14 - title('figure a: dynamic responses of the tanks')
15 - subplot(3,1,3)
16 - plot (t,Q(:,2),'b*--')
17 - xlabel('time (min)')
18 - ylabel('volume (litres)')
19 - legend('Tank 2', 'Location', 'South')
20 - grid on
21 - axis tight
22 - subplot(3,1,3)
23 - plot (t,Q(:,3),'r+--')
24 - xlabel('time (min)')
25 - ylabel('volume (litres)')
26 - legend('Tank 3', 'Location', 'South')
27 - grid on
28 - axis tight
29
```

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