

```
1 % Task Set C
2 clc;
3 close all;
4 grid on;
5
6 t = 0:0.1:24;
7 M = 35;
8 T0 = 65;
9 Mt = M - 12 * cos((pi * (t - 5)) / 12);
10 t0 = Mt - T0;
11 k = 0.25;
12 T = Mt - t0 .* exp(-k * t);
13
14 plot(t, T, 'b');
15 hold on;
16 plot(t, Mt, 'ro');
17 xlabel('t');
18 ylabel('Temperature');
19 legend('Temperature T(t)', 'Mt');
20
21 disp('Min Mt:');
22 disp(min(Mt));
23 disp('Max Mt:');
24 disp(max(Mt));
25 disp('Min T:');
26 disp(min(T));
27 disp('Max T:');
28 disp(max(T));
29
```