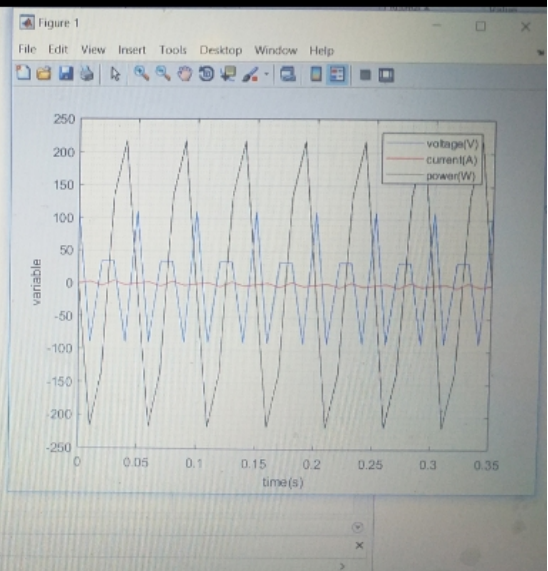
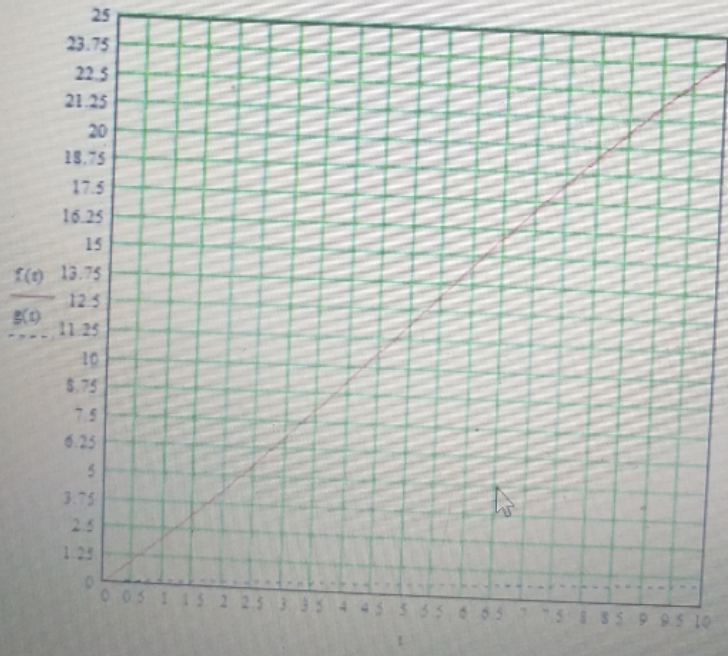
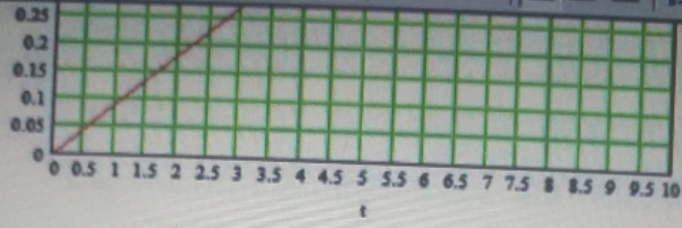
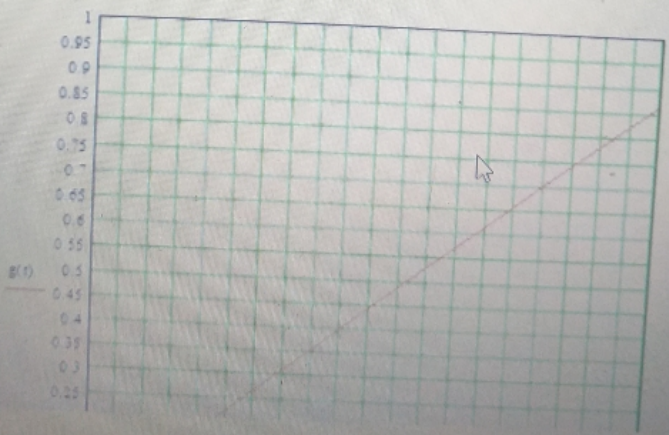
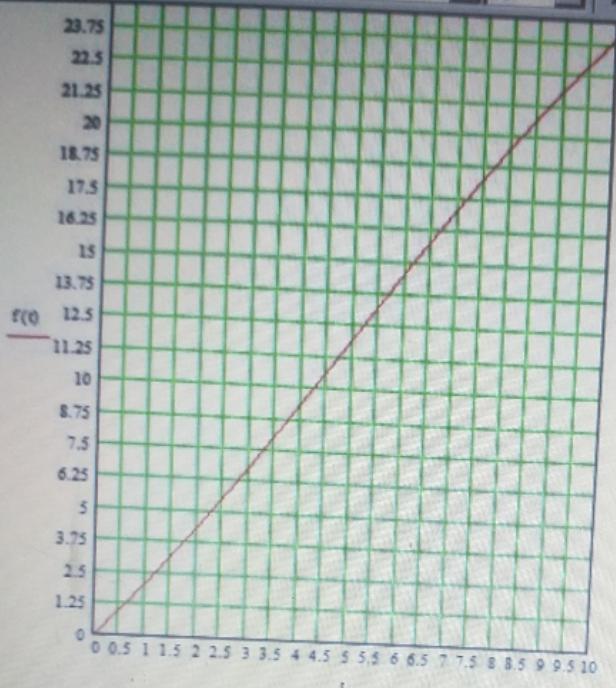


```
1 - clear
2 - clc
3 - A=[1 -2 -1 3; 2 3 0 1; 1 0 -4 -2; 0 -1 3 1]
4 - B=[10;8;3;-7]
5 - C=inv(A)
6 - D=C*B
7 - R=[273;273;273;273]
8 - T=D+K
9 - syms t
10 - V=110*cos(120*pi*t)
11 - C=0.0001
12 - Q=C*V
13 - I=diff(Q)
14 - P=I*V
15 - t=[0:0.01:0.35]
16 - Vn=subs(V,t)
17 - In=subs(I,t)
18 - Pn=subs(P,t)
19 - plot(t,Vn,'blue',t,In,'r',t,Pn,'black')
20 - grid on
21 - grid minor
22 - xlabel('time(s)')
23 - ylabel('variable')
24 - legend('voltage(V)', 'current(A)', 'power(W)')
```





Normal Arial 10



15  
for help.

Taskbar icons: Search, File Explorer, Edge, Store, OneDrive, Internet Explorer, Chrome, Firefox, Task View, Start Menu, Power.



$$C = \begin{pmatrix} -1 \\ 2 \\ -3 \\ 4 \end{pmatrix}$$

$$K = \begin{pmatrix} 273 \\ 273 \\ 273 \\ 273 \end{pmatrix}$$

$$T = C + K$$

$$T = \begin{pmatrix} 272 \\ 275 \\ 270 \\ 277 \end{pmatrix}$$

$$t = 0, 1, \dots, 10$$

$$f(t) = 2 + 2t - 2 \cos\left(\pi \frac{t}{10}\right)$$

$$g(t) = 2 \sin\left(\pi \frac{t}{70}\right)$$

t =

0
1
2
3
4
5
6
7
8
9
10

f(t) =

0
2.098
4.382
6.824
9.382
12
14.618
17.176
19.618
21.902
24

g(t) =

0
0.09
0.179
0.268
0.357
0.445
0.532
0.618
0.703
0.786
0.868

Press F1 for help.

$$A := \begin{pmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ 0 & -1 & 3 & 1 \end{pmatrix}$$

$$B := \begin{pmatrix} 10 \\ 8 \\ 3 \\ -7 \end{pmatrix}$$

$$C := A^{-1} \cdot B$$

$$C = \begin{pmatrix} -1 \\ 2 \\ -3 \\ 4 \end{pmatrix}$$

$$K := \begin{pmatrix} 273 \\ 273 \\ 273 \\ 273 \end{pmatrix}$$

$$T = C + K$$

$$T = \begin{pmatrix} 272 \\ 275 \\ 270 \\ 277 \end{pmatrix}$$

$$t = 0.1..10$$

$$f(t) = 2 + 2t - 2 \cos\left(\pi \frac{t}{10}\right)$$

$$g(t) = 2 \sin\left(\pi \frac{t}{70}\right)$$

t =

0
1
2
3
4
5
6
7

f(t) =

0
2.098
4.382
6.824
9.382
12
14.618
17.176
19.618
21.902

g(t) =

0
0.09
0.179
0.268
0.357
0.445
0.532
0.618
0.702

Press F1 for help.