

HOME PLOTS APPS EDITOR PUBLISH VIEW

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FILE NAVIGATE EDIT BREAKPOINTS RUN

C:\Users\abolo\Documents\MATLAB

Current Folder

- mimisalmy3.m
- onizeraji1.m
- rajionizeummi1.m
- rajiummisalma1.m
- Salmaummi2.m
- ummusalma2.m

```

Editor - C:\Users\abolo\Documents\MATLAB\ummusalma2.m
rajiummisalma1.m x ummusalma2.m x +
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms t
6 - y=110*cos(120*pi*t)
7 - v=diff(y)
8 - i=diff(v)
9 - p=diff(i)
10 - tn=0:0.01:0.35
11 - yn=subs(y,tn)
12 - in=subs(i,tn)
13 - vn=subs(v,tn)
14 - pn=subs(p,tn)
15 - plot(yn,tn,in,tn,vn,tn,pn,tn)
16 - xlabel='time(secs)')
17 - ylabel='variable'
    
```

onizeraji1.m (Script)

Workspace

Name	Value
i	1x1 sym
in	1x36 sym
p	1x1 sym
pn	1x36 sym
t	1x1 sym
tn	1x36 double
v	1x1 sym
vn	1x36 sym
xlabel	'time(secs)'

Command Window

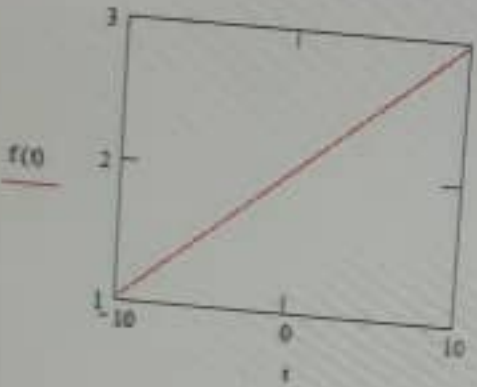
New to MATLAB? See resources for [Getting Started](#).

```

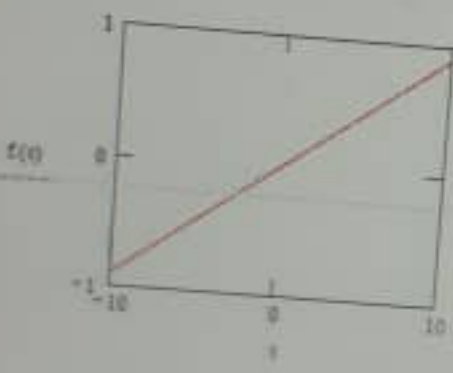
ylabel =
    'variable'
fx >>
    
```

Anal 10 B / U 100%

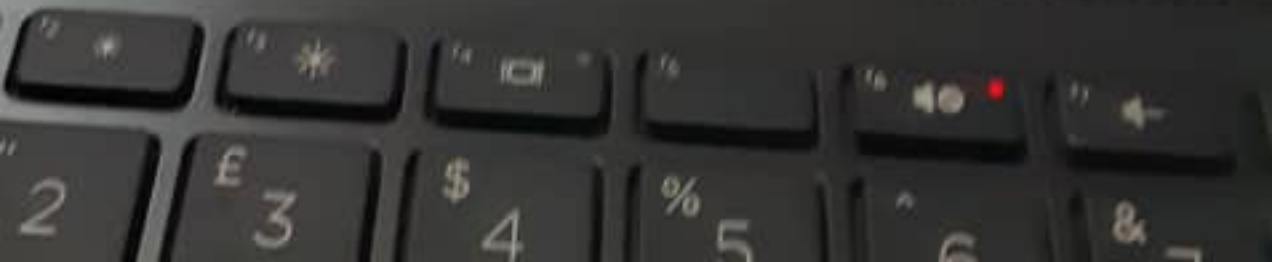
$$f(t) = 2 + 2t - 2 \cdot \cos\left(\frac{\pi}{10}\right) \cdot t$$
$$0 \leq t \leq 10$$

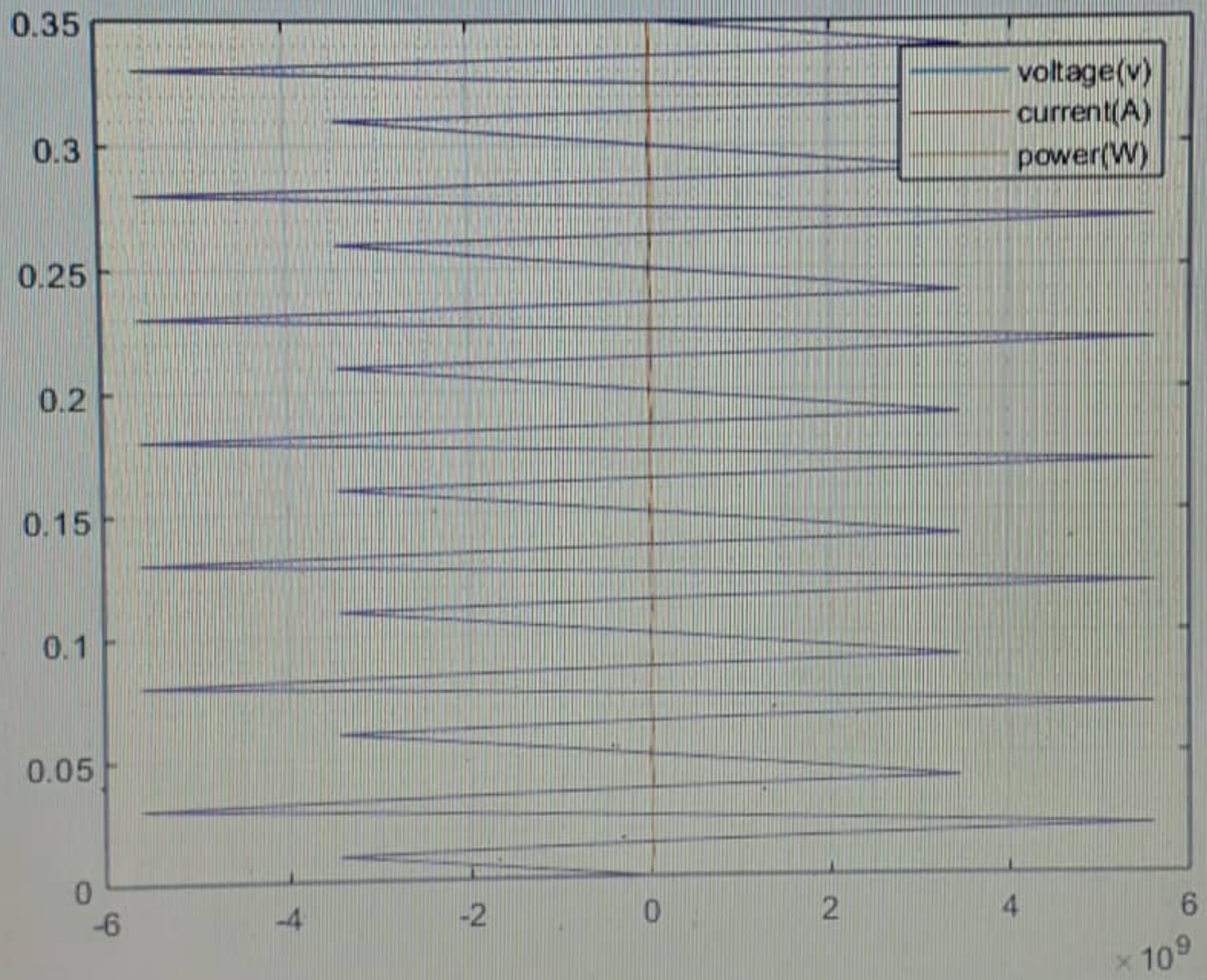


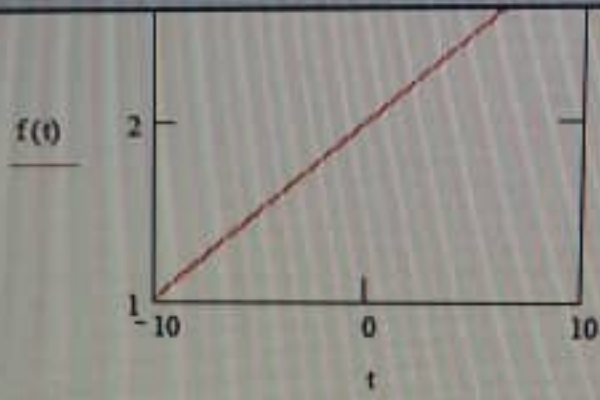
$$f(t) = 2 \sin\left(\frac{\pi}{70}\right) \cdot t$$
$$0 \leq t \leq 10$$



Taskbar icons: File Explorer, PowerPoint, Chrome, Firefox, Edge

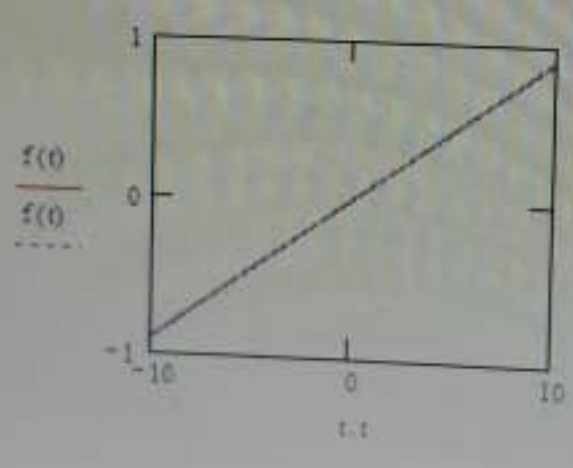
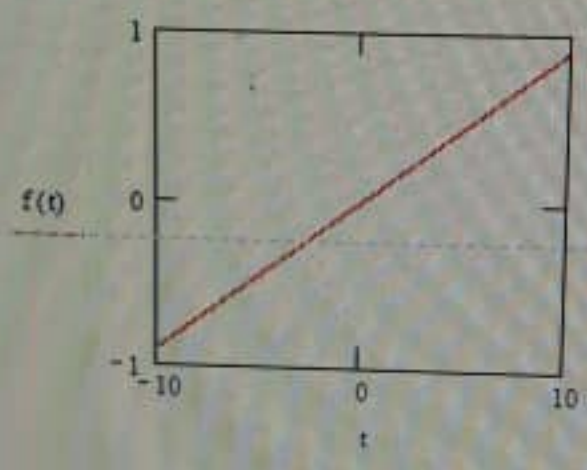






$$f(t) = 2 \sin\left(\frac{\pi}{70}\right) \cdot t$$

$$0 \leq t \leq 10$$



RAJI UMMI-SALMA ONIZE
BIOMEDICAL ENGINEERING
18/ENG08/020

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

$$c = \begin{pmatrix} 10 \\ 8 \\ 3 \\ 7 \end{pmatrix}$$

$$r = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.333 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.307 & -0.333 \end{pmatrix}$$

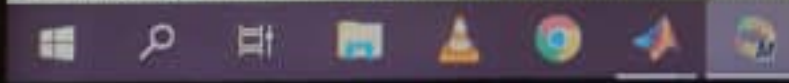
$$b = \begin{pmatrix} 8.333 \\ -2.667 \\ 1.667 \\ -0.667 \end{pmatrix}$$

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

$0 \leq t \leq 10$



Press F1 for help.



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- onizeraji1.m
- rajionizeummi1.m
- rajiummisalma1.m
- Salmaummi2.m
- ummusalma2.m

```

Editor - C:\Users\abolo\Documents\MATLAB\rajiummisalma1.m
rajiummisalma1.m x ummusalma2.m x +
1 - commandwindow
2 - clear
3 - clc
4 - a=[1 -2 -1 3; 2 3 0 1; 1 0 -4 -2; 0 -1 3 1]
5 - c=[10; 8; 3; 7]
6 - r=inv(a)
7 - b=r*c
8
9
10
    
```

onizeraji1.m (Script)

Workspace

Name	Value
a	4x4 double
b	[8.3333;-2.6667;1.666...
c	[10;8;3;7]
r	4x4 double

Command Window

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```

8.3333
-2.6667
1.6667
-0.6667
fx >>
    
```

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

$$b = \begin{pmatrix} 11 \\ 12 \\ 11 \\ 11 \end{pmatrix}$$

$$b = \begin{pmatrix} 11 \\ 12 \\ 11 \\ 11 \end{pmatrix}$$

$x = A^{-1}b$

$$A^{-1} = \begin{pmatrix} 0.75 & 0.25 & 0.00 & -0.00 \\ -0.00 & 0.10 & 0.20 & -0.10 \\ -0.10 & 0.20 & 0.00 & -0.10 \\ 0.25 & 0.00 & -0.10 & -0.10 \end{pmatrix}$$

$x = A^{-1}b$

$$x = \begin{pmatrix} 0.75 \\ -0.00 \\ 0.10 \\ -0.10 \end{pmatrix}$$

