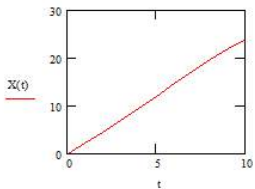
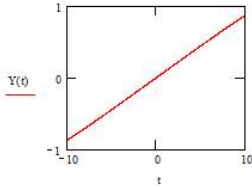


$$Y(t) := 2 \sin\left(\frac{\pi t}{70}\right)$$

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

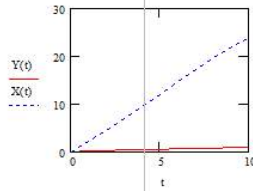
t := 0..10

t =
0
1
2
3
4
5
6
7
8
9
10



X(t) =
0
2.098
4.382
6.824
9.382
12
14.618
17.176
19.618
21.902
24

Y(t) =
0
0.09
0.179
0.268
0.357
0.445
0.532
0.618
0.703
0.786
0.868



$$A := \begin{pmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ 0 & -1 & 3 & 1 \end{pmatrix} \quad B := \begin{pmatrix} t1 \\ t2 \\ t3 \\ t4 \end{pmatrix} \quad C := \begin{pmatrix} 10 \\ 8 \\ 3 \\ -7 \end{pmatrix}$$

$$A^{-1} = \begin{pmatrix} 0.027 & 0.24 & 0.493 & 0.667 \\ -0.093 & 0.16 & -0.227 & -0.333 \\ -0.107 & 0.04 & 0.027 & 0.333 \\ 0.227 & 0.04 & -0.307 & -0.333 \end{pmatrix} \quad A^{-1} \cdot C = \begin{pmatrix} -1 \\ 2 \\ -3 \\ 4 \end{pmatrix}$$

Calculator

$n!$   $i$   $m..n$   $x_n$   $|x|$   
 $\ln$   $e^x$   $x^{-1}$   $x^x$   $\sqrt{x}$   
 $\log$   $\pi$   $()$   $x^2$   $\sqrt{\quad}$   
 $\tan$   $7$   $8$   $9$   $/$   
 $\cos$   $4$   $5$   $6$   $\times$   
 $\sin$   $1$   $2$   $3$   $+$   
 $:=$   $.$   $0$   $-$   $=$

Math

$x =$   $\int$   $\frac{d}{dx}$   $\sum$   
 $\alpha$   $\beta$

Matrix

$\begin{bmatrix} \dots \\ \dots \\ \dots \end{bmatrix}$   $x_n$   $x^{-1}$   $|x|$   
 $\vec{r}(t)$   $H^{\circ}$   $H^T$   $m..n$   
 $f \cdot \vec{r}$   $\vec{r} \cdot \vec{r}$   $\sum U$

Graph

$\int$   $\frac{d}{dx}$   $\sum$   
 $\vec{r}(t)$   $H^{\circ}$   $H^T$   $m..n$   
 $f \cdot \vec{r}$   $\vec{r} \cdot \vec{r}$   $\sum U$

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C:\Users\winif\OneDrive\Documents\MATLAB

Current Folder

- Untitled7.m
- Untitled5.m
- Untitled5.asv
- Untitled3.m
- Untitled3.asv
- Untitled2.m
- Untitled.m
- self.m
- ANARICA.m
- ANARICA.asv
- aids2.mat
- aids1.fig
- aids\_2.m
- adaeze\_10.m
- adaeze\_9.m

ANARICA.asv (Editor Autosave)

```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - P = 9
6 - Q = 6
7 - R = 7
8 - S = 3
9 - T = 4
10 - clear R T
```

Workspace

Name	Value
P	9
Q	6
S	3

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Find Files Find Compare Go To Comment Indent Breakpoints Run Run and Advance Run and Time

FILE NAVIGATE EDIT BREAKPOINTS RUN

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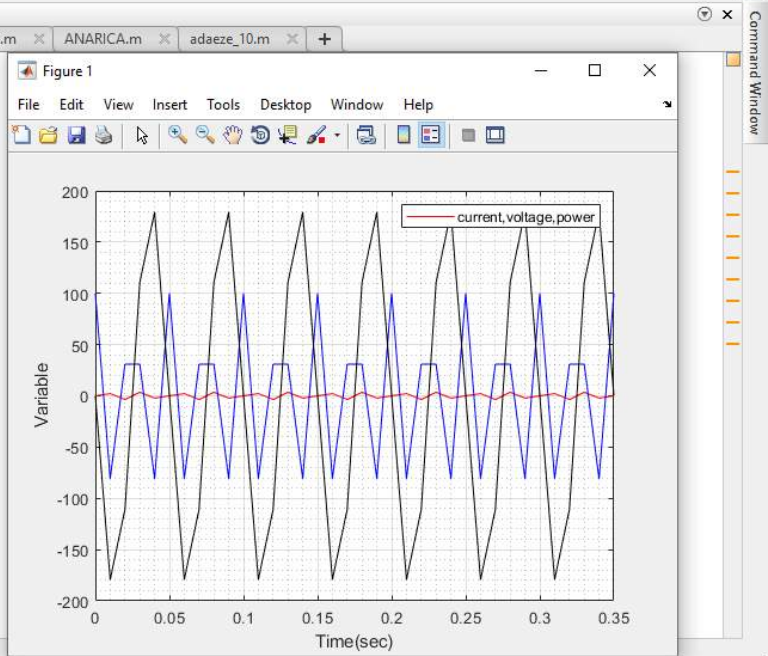
Current Folder

- Untitled7.m
- Untitled5.m
- Untitled3.m
- Untitled3.m
- Untitled3.m
- Untitled3.m
- Untitled2.m
- Untitled.m
- self.m
- ANARICA.m
- aids2.mat
- aids1.fig
- aids2.m
- adaeze\_10.m
- adaeze\_9.m
- adaeze\_8.m

Workspace

Name	Value
C	1.0000e-04
I	1x1 sym
It	1x36 sym
P	1x1 sym
Pt	1x36 sym
t	1x36 double
V	1x1 sym
Vp	1x1 sym
Vt	1x36 sym

```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms t
6 - V = 100*cos(120*pi*t)
7 - C = 0.0001
8 - Vp = diff(V)
9 - I = C*Vp
10 - P = I*V
11 - t = [0:0.01:0.35]
12 - It = subs(I)
13 - Vt = subs(V)
14 - Pt = subs(P)
15 - plot(t,It,'r',t,Vt,'b',t,Pt,'black')
16 - xlabel('Time(sec)')
17 - ylabel('Variable')
18 - legend('current,voltage,power')
19 - grid minor
20 -
21 -
22 -
23 -
```



MATLAB R2018a

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Find Files Find % % % Breakpoints Run Run and Advance Run Section Run and Time

FILE NAVIGATE EDIT BREAKPOINTS RUN

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Current Folder

- adaeze.m
- adaeze\_1.m
- adaeze\_2.m
- adaeze\_3.m
- adaeze\_4.mat
- adaeze\_5.m
- adaeze\_5.mat
- adaeze\_7.asv
- adaeze\_7.m
- adaeze\_8.m
- adaeze\_9.m
- adaeze\_10.m
- aida\_2.m
- aids1.fig
- aids2.mat

Details

Workspace

Name	Value
C	1.0000e-04
I	1x1 sym
t	1x36 sym
P	1x1 sym
Pt	1x36 sym
t	1x36 double
V	1x1 sym
Vp	1x1 sym
Vt	1x36 sym

Editor - C:\Users\winif\OneDrive\Documents\MATLAB\adaeze\_10.m

```

1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms t1 t2 t3 t4
6 - A = [1 -2 -1 3; 2 3 0 4; 1 0 -4 -2; 0 -1 3 4]
7 - B = [t1; t2; t3; t4]
8 - C = [10; 8; 3; -7]
9 - A^-1
10 - inv(A)*C
11 -

```

Command Window

```

[ 100, -20^5 (1/2) - 20, 20^5 (1/2) - 20, 20^5 (1/4) - 20, -20^5 (1/4) - 20, 100, -20^5 (1/2) - 20, 20^5 (1/2) - 20, 20
]

Et =

[ 0, -30*2^(1/2)*pi*(5^(1/2)/4 + 1/4)*(5 - 5^(1/2))^(1/2), -30*2^(1/2)*pi*(5^(1/2)/4 - 1/4)*(5^(1/2) + 5)^(1/2), 30*2^(1/2)
]

>>

```

script Ln 11 Col 1

3:34 PM 23/11/2019