

HOME PLOTS APPS EDITOR PUBLISH VIEW

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

FILE NAVIGATE EDIT BREAKPOINTS RUN

C: > Users > user > Documents >

Workspace

Name	Value
A	4x4 double
b	[-4;2;6;4]
x	[4.0000;-9.7145e-17;2....

Editor - fifthassignment.m

fifthassignment.m test.m test2.m test3.m +

```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms t
6 - a=vpa(pi)
7 - q=0.25*sin(25*a*t)
8 - v=0.5*cos(0.2*a*t)
9 - i=diff(q)
10 - tn=[0:0.0001:0.35]
11 - i=diff(q)
12 - in=subs(i,tn)
13 - p=i*v
14 - pn=subs(p,tn)
15 - figure(1)
16 - plot(tn,pn,tn,in)
17 - grid on
18 - grid minor
19 - axis tight
20 - ylabel('Variable')
21 - xlabel('Time (s)')
22 - legend('Power (W)', 'Current (A)')
23
```

Command Window

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FILE VARIABLE CODE ENVIRONMENT RESOURCES

C:\Users\user\Documents

Workspace

Editor - fifthassignment.m

Command Window

Name	Value
a	1x1 sym
i	1x1 sym
in	1x3501 sym
p	1x1 sym
pn	1x3501 sym
q	1x1 sym
t	1x1 sym
tn	1x3501 double
v	1x1 sym

```

a =
3.1415926535897932384626433832795

q =
sin(78.539816339744830961566084581988*t)/4

v =
cos(0.6283185307179586476925286766559*t)/2

i =
19.634954084936207740391521145497*cos(78.539816339744830961566084581988*t)

tn =
Columns 1 through 9
0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Columns 10 through 18
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

```

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FILE VARIABLE CODE ENVIRONMENT RESOURCES

C:\Users\user\Documents

Workspace

Name	Value
a	1x1 sym
i	1x1 sym
in	1x3501 sym
p	1x1 sym
pn	1x3501 sym
q	1x1 sym
t	1x1 sym
tn	1x3501 double
v	1x1 sym

Editor - fifthassignment.m

```

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3394 through 3402

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3403 through 3411

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3412 through 3420

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3421 through 3429

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3430 through 3438

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3439 through 3447

0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34      0.34
Columns 3448 through 3456

0.34      0.34      0.34      0.34      0.35      0.35      0.35      0.35      0.35      0.35

```

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FILE VARIABLE CODE ENVIRONMENT RESOURCES

C:\Users\user\Documents

Workspace

Name	Value
a	1x1 sym
i	1x1 sym
in	1x3501 sym
p	1x1 sym
pn	1x3501 sym
q	1x1 sym
t	1x1 sym
tn	1x3501 double
v	1x1 sym

Editor - fifthassignment.m

Command Window

```

Columns 3484 through 3492
    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.3
Columns 3493 through 3501
    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.35    0.3

i =

19.634954084936207740391521145497*cos(78.539816339744830961566084581988*t)

in =

[ 19.634954084936207740391521145497, 19.63434849670778244644093782589, 19.632531769378041069112833253947, 19.6295040150112828

p =

9.8174770424681038701957605727484*cos(78.539816339744830961566084581988*t)*cos(0.6283185307179586476925286766559*t)

pn =

[ 9.8174770424681038701957605727484, 9.817174228975565996032746188364, 9.8162658071828918543183270353773, 9.81475183314374664

fx >>
<

```

