Editor

commandwindow

clear

clc

close all

syms t

Q=0.25\*sin(25\*pi\*t)

V=0.5\*cos(0.2\*pi\*t)

tn=0:0.0001:0.35

Qp=subs(Q,tn)

Vp=subs(V,tn)

current=Q/t

I=diff(Q)

In=subs(I,tn)

Power=I\*V

Pn=subs(Power,tn)

figure(1)

plot(tn,In,tn,Pn)

plot(tn,In,'red',tn,Pn,'blue')

axis tight

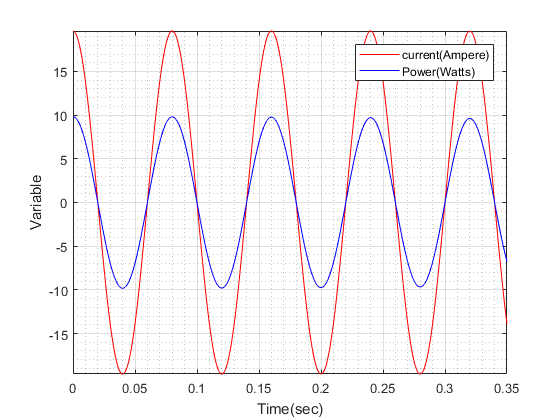
grid on

grid minor

xlabel('Time(sec)')

ylabel('Variable')

legend('current(Ampere)','Power(Watts)')



**CommandWindow**

Q =

sin(25\*pi\*t)/4

V =

cos((pi\*t)/5)/2

tn =

Columns 1 through 3

0 1.000000000000000e-04 2.000000000000000e-04

Columns 4 through 6

3.000000000000000e-04 4.000000000000000e-04 5.000000000000000e-04

Columns 7 through 9

6.000000000000001e-04 7.000000000000000e-04 8.000000000000000e-04

Columns 10 through 12

9.000000000000001e-04 1.000000000000000e-03 1.100000000000000e-03

Columns 13 through 15

1.200000000000000e-03 1.300000000000000e-03 1.400000000000000e-03

Columns 16 through 18

1.500000000000000e-03 1.600000000000000e-03 1.700000000000000e-03

Columns 19 through 21

1.800000000000000e-03 1.900000000000000e-03 2.000000000000000e-03

Columns 22 through 24

2.100000000000000e-03 2.200000000000000e-03 2.300000000000000e-03

Columns 25 through 27

2.400000000000000e-03 2.500000000000000e-03 2.600000000000000e-03

Columns 28 through 30

2.700000000000000e-03 2.800000000000000e-03 2.900000000000000e-03

Columns 31 through 33

3.000000000000000e-03 3.100000000000000e-03 3.200000000000000e-03

Columns 34 through 36

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Columns 37 through 39

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Columns 40 through 42

3.900000000000000e-03 4.000000000000000e-03 4.100000000000000e-03

Columns 43 through 45

4.200000000000001e-03 4.300000000000000e-03 4.400000000000000e-03

Columns 46 through 48

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Columns 49 through 51

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Columns 52 through 54

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Columns 55 through 57

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Columns 58 through 60

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Columns 61 through 63

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Columns 64 through 66

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Columns 67 through 69

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Columns 70 through 72

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Columns 73 through 75

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Columns 76 through 78

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Columns 79 through 81

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Columns 82 through 84

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Columns 85 through 87

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Columns 88 through 90

8.700000000000001e-03 8.800000000000001e-03 8.900000000000000e-03

Columns 91 through 93

9.000000000000001e-03 9.100000000000000e-03 9.200000000000000e-03

Columns 94 through 96

9.300000000000001e-03 9.400000000000000e-03 9.500000000000000e-03

Columns 97 through 99

9.600000000000001e-03 9.700000000000000e-03 9.800000000000000e-03

Columns 100 through 102

9.900000000000001e-03 1.000000000000000e-02 1.010000000000000e-02

Columns 103 through 105

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Columns 106 through 108

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Columns 598 through 600

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Columns 601 through 603

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6.960000000000001e-02 6.970000000000000e-02 6.980000000000000e-02

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Columns 703 through 705

7.020000000000000e-02 7.030000000000000e-02 7.040000000000000e-02

Columns 706 through 708

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sin((13\*pi)/50)/4, sin((103\*pi)/400)/4, sin((51\*pi)/200)/4, sin((101\*pi)/400)/4, 2^(1/2)/8]

Vp =

[ 1/2, cos(pi/50000)/2, cos(pi/25000)/2, cos((3\*pi)/50000)/2, cos(pi/12500)/2, cos(pi/10000)/2, cos((3\*pi)/25000)/2, cos((7\*pi)/50000)/2, cos(pi/6250)/2, cos((9\*pi)/50000)/2, cos(pi/5000)/2, cos((11\*pi)/50000)/2, cos((3\*pi)/12500)/2, cos((13\*pi)/50000)/2, cos((7\*pi)/25000)/2, cos((3\*pi)/10000)/2, cos(pi/3125)/2, cos((17\*pi)/50000)/2, cos((9\*pi)/25000)/2, cos((19\*pi)/50000)/2, cos(pi/2500)/2, cos((21\*pi)/50000)/2, cos((11\*pi)/25000)/2, cos((23\*pi)/50000)/2, cos((3\*pi)/6250)/2, cos(pi/2000)/2, cos((13\*pi)/25000)/2, cos((27\*pi)/50000)/2, cos((7\*pi)/12500)/2, cos((29\*pi)/50000)/2, cos((3\*pi)/5000)/2, cos((31\*pi)/50000)/2, cos((2\*pi)/3125)/2, cos((33\*pi)/50000)/2, cos((17\*pi)/25000)/2, cos((7\*pi)/10000)/2, cos((9\*pi)/12500)/2, cos((37\*pi)/50000)/2, cos((19\*pi)/25000)/2, cos((39\*pi)/50000)/2, cos(pi/1250)/2, cos((41\*pi)/50000)/2, cos((21\*pi)/25000)/2, cos((43\*pi)/50000)/2, cos((11\*pi)/12500)/2, cos((9\*pi)/10000)/2, cos((23\*pi)/25000)/2, cos((47\*pi)/50000)/2, cos((3\*pi)/3125)/2, cos((49\*pi)/50000)/2, cos(pi/1000)/2, cos((51\*pi)/50000)/2, cos((13\*pi)/12500)/2, cos((53\*pi)/50000)/2, cos((27\*pi)/25000)/2, cos((11\*pi)/10000)/2, cos((7\*pi)/6250)/2, cos((57\*pi)/50000)/2, cos((29\*pi)/25000)/2, cos((59\*pi)/50000)/2, cos((3\*pi)/2500)/2, cos((61\*pi)/50000)/2, cos((31\*pi)/25000)/2, cos((63\*pi)/50000)/2, cos((4\*pi)/3125)/2, cos((13\*pi)/10000)/2, cos((33\*pi)/25000)/2, cos((67\*pi)/50000)/2, cos((17\*pi)/12500)/2, cos((69\*pi)/50000)/2, cos((7\*pi)/5000)/2, cos((71\*pi)/50000)/2, cos((9\*pi)/6250)/2, cos((73\*pi)/50000)/2, cos((37\*pi)/25000)/2, cos((3\*pi)/2000)/2, cos((19\*pi)/12500)/2, cos((77\*pi)/50000)/2, cos((39\*pi)/25000)/2, cos((79\*pi)/50000)/2, cos(pi/625)/2, cos((81\*pi)/50000)/2, cos((41\*pi)/25000)/2, cos((83\*pi)/50000)/2, cos((21\*pi)/12500)/2, cos((17\*pi)/10000)/2, cos((43\*pi)/25000)/2, cos((87\*pi)/50000)/2, cos((11\*pi)/6250)/2, cos((89\*pi)/50000)/2, cos((9\*pi)/5000)/2, 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current =

sin(25\*pi\*t)/(4\*t)

I =

(25\*pi\*cos(25\*pi\*t))/4

In =

[ (25\*pi)/4, (25\*pi\*cos(pi/400))/4, (25\*pi\*cos(pi/200))/4, (25\*pi\*cos((3\*pi)/400))/4, (25\*pi\*cos(pi/100))/4, (25\*pi\*cos(pi/80))/4, (25\*pi\*cos((3\*pi)/200))/4, (25\*pi\*cos((7\*pi)/400))/4, (25\*pi\*cos(pi/50))/4, (25\*pi\*cos((9\*pi)/400))/4, (25\*pi\*cos(pi/40))/4, (25\*pi\*cos((11\*pi)/400))/4, (25\*pi\*cos((3\*pi)/100))/4, (25\*pi\*cos((13\*pi)/400))/4, (25\*pi\*cos((7\*pi)/200))/4, (25\*pi\*cos((3\*pi)/80))/4, (25\*pi\*cos(pi/25))/4, (25\*pi\*cos((17\*pi)/400))/4, (25\*pi\*cos((9\*pi)/200))/4, (25\*pi\*cos((19\*pi)/400))/4, (25\*pi\*cos(pi/20))/4, (25\*pi\*cos((21\*pi)/400))/4, (25\*pi\*cos((11\*pi)/200))/4, (25\*pi\*cos((23\*pi)/400))/4, (25\*pi\*cos((3\*pi)/50))/4, (25\*pi\*cos(pi/16))/4, (25\*pi\*cos((13\*pi)/200))/4, (25\*pi\*cos((27\*pi)/400))/4, (25\*pi\*cos((7\*pi)/100))/4, (25\*pi\*cos((29\*pi)/400))/4, (25\*pi\*cos((3\*pi)/40))/4, (25\*pi\*cos((31\*pi)/400))/4, (25\*pi\*cos((2\*pi)/25))/4, (25\*pi\*cos((33\*pi)/400))/4, (25\*pi\*cos((17\*pi)/200))/4, 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Power =

(25\*pi\*cos((pi\*t)/5)\*cos(25\*pi\*t))/8

Pn =

[ (25\*pi)/8, (25\*pi\*cos(pi/400)\*cos(pi/50000))/8, (25\*pi\*cos(pi/200)\*cos(pi/25000))/8, (25\*pi\*cos((3\*pi)/400)\*cos((3\*pi)/50000))/8, (25\*pi\*cos(pi/100)\*cos(pi/12500))/8, (25\*pi\*cos(pi/80)\*cos(pi/10000))/8, (25\*pi\*cos((3\*pi)/200)\*cos((3\*pi)/25000))/8, (25\*pi\*cos((7\*pi)/400)\*cos((7\*pi)/50000))/8, (25\*pi\*cos(pi/50)\*cos(pi/6250))/8, (25\*pi\*cos((9\*pi)/400)\*cos((9\*pi)/50000))/8, (25\*pi\*cos(pi/40)\*cos(pi/5000))/8, (25\*pi\*cos((11\*pi)/400)\*cos((11\*pi)/50000))/8, (25\*pi\*cos((3\*pi)/100)\*cos((3\*pi)/12500))/8, (25\*pi\*cos((13\*pi)/400)\*cos((13\*pi)/50000))/8, (25\*pi\*cos((7\*pi)/200)\*cos((7\*pi)/25000))/8, (25\*pi\*cos((3\*pi)/80)\*cos((3\*pi)/10000))/8, (25\*pi\*cos(pi/25)\*cos(pi/3125))/8, (25\*pi\*cos((17\*pi)/400)\*cos((17\*pi)/50000))/8, (25\*pi\*cos((9\*pi)/200)\*cos((9\*pi)/25000))/8, (25\*pi\*cos((19\*pi)/400)\*cos((19\*pi)/50000))/8, (25\*pi\*cos(pi/20)\*cos(pi/2500))/8, (25\*pi\*cos((21\*pi)/400)\*cos((21\*pi)/50000))/8, 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