

The image displays the MATLAB R2018b software interface. The top ribbon includes tabs for HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The EDITOR tab is active, showing a script editor with the following code:

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

Below the script editor, the Workspace window shows the following variables:

Name	Value
P	3
Q	4
S	6

The Command Window displays the message: "New to MATLAB? See resources for [Getting Started](#)." followed by the prompt "fx >>".

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```
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=inv(A)
6 - B=[10;8;3;-7]
7 - x=C*B
8 - K=x+273
```

The workspace window on the left shows the following variables:

Name	Value
A	4x4 double
B	[10;8;3;-7]
C	4x4 double
K	[272;275;270;277]
x	[-1.0000;2.0000;-3.0000...]

The Command Window on the right displays the output of the script:

```
New to MATLAB? See resources for Getting Started.

K =

    272
    275
    270
    277

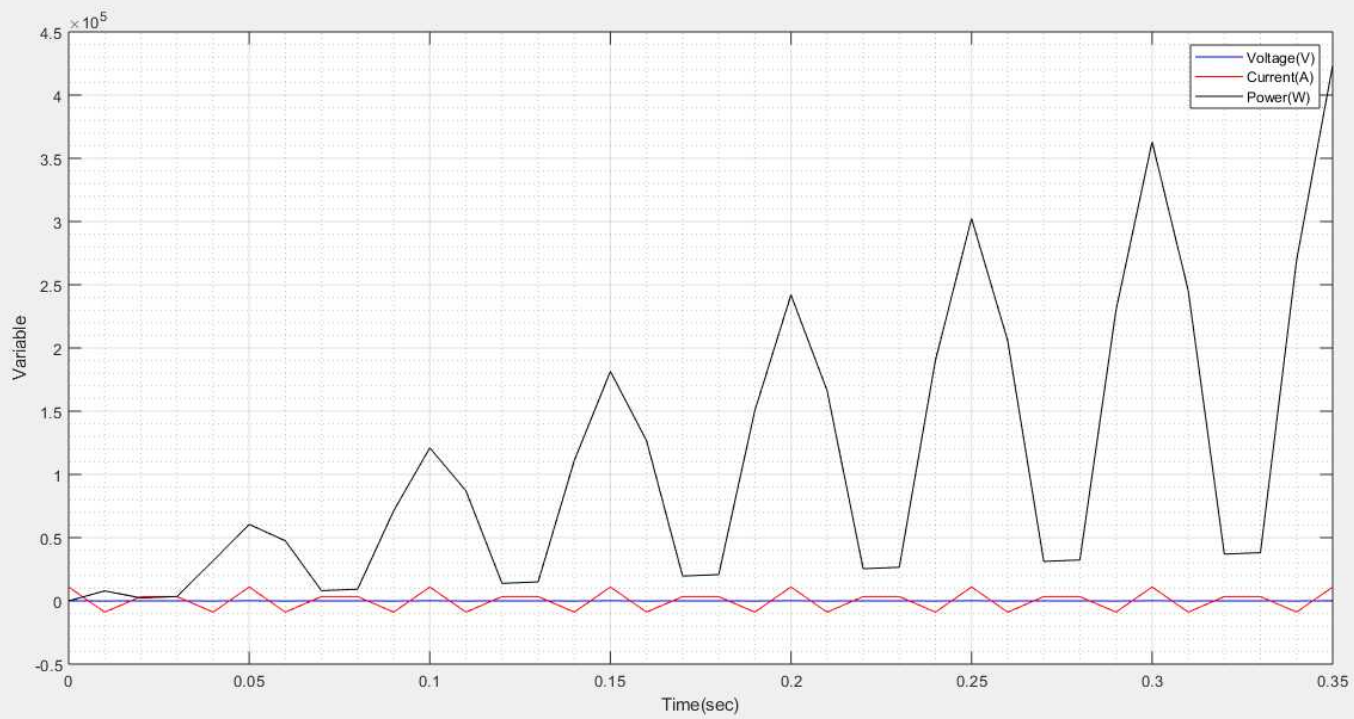
fx >>
```

The image displays the MATLAB R2018b software interface. The top menu bar includes HOME, PLOTS, APPS, EDITOR, PUBLISH, and VIEW. The toolbar contains icons for file operations (New, Open, Save, Compare, Print), navigation (Go To, Find), editing (Comment, Indent), and execution (Breakpoints, Run, Run and Advance, Run Section, Advance, Run and Time). The current folder is 'C:\Users\HP\Desktop\matlab2018'. The workspace shows variables C (100), I (1x36 double), P (1x36 double), t (1x36 double), and V (1x36 double). The command window displays the output of the script, showing numerical values for I and P.

```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - t=0:0.01:0.35
6 - C=100
7 - V=110*cos(120*pi*t)
8 - I=C*V
9 - P=I.*V.*t
10 - plot(t,V,'blue',t,I,'red',t,P,'black')
11 - xlabel('Time(sec)')
12 - ylabel('Variable')
13 - legend('Voltage (V)', 'Current (A)', 'Power (W)')
14 - grid on
15 - grid minor
16
```

Command Window Output:

```
New to MATLAB? See resources for Getting Started.
Columns 13 through 24
    0.1387    0.1502    1.1087    1.8150    1.2671    0.1964    0.2080    1.5047    2.4200    1.6631    0.2542    0.2658
Columns 25 through 36
    1.9007    3.0250    2.0591    0.3120    0.3235    2.2967    3.6300    2.4551    0.3697    0.3813    2.6926    4.2350
fx >>
```

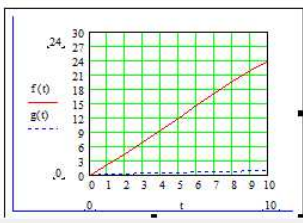
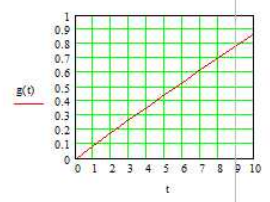
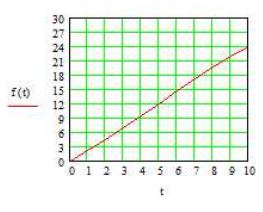


t = 0..10

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

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

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



Graph

- Plot
- Grid
- Axis
- Zoom
- Fit
- Copy
- Paste
- Print

Matrix

- $\begin{bmatrix} \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{bmatrix}$
- \times_n
- \times^1
- $\times|$
- \vec{m}^T
- M^2
- M^T
- $m \cdot b$
- $a \cdot b$
- $a \times b$
- $a \cup b$

- Font
- Color
- Text
- Equation
- Matrix
- Table
- Image
- Code
- Help