

## MATLAB CODE:

```
clear,clc;

h = 1
i = 2
j = 3
k = 4

a1 = h + i
a2 = j - k
a3 = h * j
a4 = i / k

b = h*(i/j - k)

x = 0.37128
c1 = sin(x)
c2 = cos(x)
c3 = tan(x)
c4 = exp(x)
c5 = log(x)

A = [ 1, 2, 3 ]
B = [ 4; 5; 6 ]

C = A/7

D = rand(1, 5)

E = [ 50, 22, 34; 41, 56, 64; 37, 48, 69 ]
F = E'
G = det(E)
H = inv(E)
I = E * B
J = dot( E, E )
K = pi * E
L = E(2, 2)
M1 = min(min(E))
M2 = max(max (E))

aa = 0;
for n = 1:50
    aa = aa + ((-1)^(n+1))/(2*n - 1);
end
aa
bb = 0;
n = 1;
while n < 51
    bb = bb + ((-1)^(n+1))/(2*n - 1);
    n = n+1;
end
bb
phi = bb
```

```
epsilon = (pi - phi)/pi

lims = 0:.0001:4*pi;
f = sin(2*pi*lims);
g = cos(2*pi*lims);
xlabel('Radians');
ylabel('Sinusoid Values');
fplot = plot(f);
hold all
gplot = plot(g);
legend([fplot, 'sine'], [gplot, 'cosine']);

print -djpeg test.jpg
```

OUTPUT

h =

1

i =

2

j =

3

k =

4

a1 =

3

a2 =

-1

a3 =

3

a4 =

0.5000

b =

-3.3333

x =

0.3713

c1 =

0.3628

c2 =

0.9319

c3 =

0.3893

c4 =

1.4496

c5 =

-0.9908

A =

1      2      3

B =

4  
5  
6

C =

0.1429      0.2857      0.4286

D =

0.8147	0.9058	0.1270	0.9134	0.6324
--------	--------	--------	--------	--------

E =

50	22	34
41	56	64
37	48	69

F =

50	41	37
22	56	48
34	64	69

G =

2.5922e+04

H =

0.0306	0.0044	-0.0191
-0.0178	0.0846	-0.0697
-0.0040	-0.0612	0.0732

I =

514  
828  
802

J =

5550	5924	10013
------	------	-------

K =

157.0796	69.1150	106.8142
----------	---------	----------

128.8053	175.9292	201.0619
116.2389	150.7964	216.7699

L =

56

M1 =

22

M2 =

69

aa =

0.7804

bb =

0.7804

phi =

0.7804

epsilon =

0.7516

EDU>>

