

QUESTION 3:**Solution:**

```
clear all

close all

clc

a=15.62;

b=-7.08;

c=62.5;

d=0.5*((a*b)-c);

ans_a=a+((a*b)/c)*(((a+d)^2)/sqrt(abs(a*b)));

ans_b=(d*exp(d/2))+((((a*d)+(b*c))/((20/a)+(30/b)))/(a+b+c+d));

ans_c=(443*c)/(2*(a^3))+(exp(-a*b)/(a+b));

disp('a : ');

disp(ans_a);

disp('b : ');

disp(ans_b);

disp('c : ');

disp(ans_c);
```

OUTPUT:

```
a :
-830.7755

b :
-39.1384

c :
1.2502e+47
```

QUESTION 1:**Solution:**

```
clear all

close all

clc

row_1=[32,4,81,exp(2.5),63,cos(pi/3),14.12];

disp('a : ');

disp(row_1);

col_1=[55;14;log(51);987;0;5*sin(2.5*pi)];

disp('b : ');

disp(col_1);

row_2=[1:2:33];

disp('c : ');

disp(row_2);

col_2=([15:-5:-25])';

disp('d : ');

disp(col_2);

row_3=linspace(7,40,15);

disp('e : ');

disp(row_3);

col_3=(linspace(-1,-15,12))';

disp('f : ');

disp(col_3);
```

OUTPUT:

```

a :
    32.0000    4.0000    81.0000    12.1825    63.0000    0.5000    14.1200

b :
    55.0000
    14.0000
     3.9318
    987.0000
         0
     5.0000

c :
     1     3     5     7     9    11    13    15    17    19    21    23    25    27    29    31    33

d :
    15
    10
     5
     0
    -5
   -10
   -15
   -20
   -25

e :
Columns 1 through 13
    7.0000    9.3571   11.7143   14.0714   16.4286   18.7857   21.1429   23.5000   25.8571   28.2143   30.5714   32.9286   35.2857

Columns 14 through 15
    37.6429   40.0000

f :
   -1.0000
   -2.2727
   -3.5455
   -4.8182
   -6.0909
   -7.3636
   -8.6364
   -9.9091
  -11.1818
  -12.4545
  -13.7273
  -15.0000

```

QUESTION 2:**Solution:**

```
A1=4:3:49;
```

```
A2=[A1(1:4),A1(13:16)];
```

```
disp('A1 : ');
```

```
disp(A1);
```

```
disp('A2 : ');
```

```
disp(A2);
```

OUTPUT:

```
A1 :  
    4     7    10    13    16    19    22    25    28    31    34    37    40    43    46    49  
  
A2 :  
    4     7    10    13    40    43    46    49
```