**format long**

**pi**

ans =

3.141592653589793

**format rat**

**pi**

ans =

355/113

**format short**

**pi**

ans =

3.1416

**format**

**a=[2 4 6 1 7];**

**a(a>3)**

ans =

4 6 7

**a(a>3)=a(a>3)+1**

a =

2 5 7 1 8

**a(a>3)=a(a>3)-1**

a =

2 4 6 1 7

**a([2 4])=a([2 4])+1**

a =

2 5 6 2 7

**a([2 4])=a([2 4])-1**

a =

2 4 6 1 7

**a(1:2:end)=a(1:2:end)+1**

a =

3 4 7 1 8

**a(1:2:end)=a(1:2:end)-1**

a =

2 4 6 1 7

**b=a>3**

b =

0 1 1 0 1

**find(b)**

ans =

2 3 5

**i=find(a>3)**

i =

2 3 5

**a(i)**

ans =

4 6 7

**%eliminar los >3**

**b=a**

b =

2 4 6 1 7

**b(b>3)=[]**

b =

2 1

**b=a;**

**b(find(b>3))=[]**

b =

2 1

**%notas de ciclo de un alumno**

**n=[10 13 8 16];**

**c=[4 3 2 5];**

**%cantidad de creditos aprobados**

**c.\*(n>=10)**

ans =

4 3 0 5

**sum(c.\*(n>=10))**

ans =

12

**sum(c(n>=10))**

ans =

12

**i=find(n>=10)**

i =

1 2 4

**sum(c(i))**

ans =

12

**%Promedio Ciclo**

**sum(n.\*c)/sum(c)**

ans =

12.5000

**(n\*c')/sum(c)**

ans =

12.5000

**%PCiclo de aprobados**

**sum(c(n>=10).\*n(n>=10))/sum(c(n>=10))**

ans =

13.2500

**sum(c.\*n.\*(n>=10))/sum(c.\*(n>=10))**

ans =

13.2500

**a(8)=3**

a =

2 4 6 1 7 0 0 3

**sort(a)**

ans =

0 0 1 2 3 4 6 7

**a**

a =

2 4 6 1 7 0 0 3

**sort(-a)**

ans =

-7 -6 -4 -3 -2 -1 0 0

**-sort(-a)**

ans =

7 6 4 3 2 1 0 0

**a**

a =

2 4 6 1 7 0 0 3

**%presentar un nuevo vector con la mitad izquierda del vector a**

**%intercambiada con la mitad derecha, pero la primera mitad**

**%quedara en orden invertido, y la segunda quedara ordenada**

**%en forma ascendente**

**%objetivo:**

**% 3 0 0 7 1 2 4 6**

**n=length(a)**

n =

8

**a=[ a(n:-1:(n/2+1)) sort(a(1:(n/2)))]**

a =

3 0 0 7 1 2 4 6

**%mostrar los elementos >=2 y <=6**

**a(a>=2 & a<=6)**

ans =

3 2 4 6

**~(a>3)**

ans =

1 1 1 0 1 1 0 0

**a=[ a(n:-1:(n/2+1)) sort(a(1:(n/2)))]**

a =

6 4 2 1 0 0 3 7

**fliplr(a)**

ans =

7 3 0 0 1 2 4 6

**flipud(a')**

ans =

7

3

0

0

1

2

4

6

**a=[ 3 4; 2 5]**

a =

3 4

2 5

**a\*a**

ans =

17 32

16 33

**a^3**

ans =

115 228

114 229

**%Hallar b tal que b\*b=a**

**b=a^0.5**

b =

1.5486 1.0972

0.5486 2.0972

**b\*b**

ans =

3.0000 4.0000

2.0000 5.0000

**a=[ 3 4; 2 5]**

a =

3 4

2 5

**b=[5 1; 4 2]**

b =

5 1

4 2

**clc**

**a.\*b**

ans =

15 4

8 10

**a>b**

ans =

0 1

0 1

**a**

a =

3 4

2 5

**sum(a)**

ans =

5 9

**sum(sum(a))**

ans =

14

**max(max(a))**

ans =

5

**max(a)**

ans =

3 5

**a**

a =

3 4

2 5

**a(2,1)**

ans =

2

**a(2,1)=7**

a =

3 4

7 5

**a(2,1)=2**

a =

3 4

2 5

**a(1:2,2)**

ans =

4

5

**a(:,2)**

ans =

4

5

**a(2,:)**

ans =

2 5

**a**

a =

3 4

2 5

**a(3,3)**

{Index exceeds matrix dimensions.}

**a(3,3)=8**

a =

3 4 0

2 5 0

0 0 8

**a(1:2,2:3)**

ans =

4 0

5 0

**flipud(a)**

ans =

0 0 8

2 5 0

3 4 0

a

a =

3 4 0

2 5 0

0 0 8

**fliplr(a)**

ans =

0 4 3

0 5 2

8 0 0

**a**

a =

3 4 0

2 5 0

0 0 8

**rot90(a)**

ans =

0 0 8

4 5 0

3 2 0

**a'**

ans =

3 2 0

4 5 0

0 0 8

**c=[a(2,:); a(3:-1:2,:); 9 9 9]**

c =

2 5 0

0 0 8

2 5 0

9 9 9

**c=[a(2,1) a(2,2:3); 1 2 3]**

c =

2 5 0

1 2 3

**a**

a =

3 4 0

2 5 0

0 0 8

**a(3,3)=[]**

{Subscripted assignment dimension mismatch.}

**a(3,:)=[]**

a =

3 4 0

2 5 0

**a(:,3)=[]**

a =

3 4

2 5

**a(a>2)**

ans =

3

4

5

**a(a>2)=a(a>2)+1**

a =

4 5

2 6

**a(a>2)=a(a>2)-1**

a =

3 4

2 5

**a(1,2)**

ans =

4

**a(3)**

ans =

4

a

a =

3 4

2 5

**i=find(a>3)**

i =

3

4

**i=find(a>3)**

i =

3

4

**[f c]=find(a>3)**

f =

1

2

c =

2

2

**a(3,5)=8**

a =

3 4 0 0 0

2 5 0 0 0

0 0 0 0 8

**length(a)**

ans =

5

**[f c]=size(a)**

f =

3

c =

5