

Solution fiche TP 2

Exercice 1 :

```
>> [-5:5]

ans =

    -5    -4    -3    -2    -1     0     1     2     3     4     5

>> length(ans)

ans =

    11

>> w=[-500:500]

w =

   -500
   -499
   -498
   -497
   -496
   -495

>> length(w)

ans =

    1001

>> a=[0:0.2:1] %générer un vecteur de 0 à 1 avec un pas 0.2*

a =

Columns 1 through 5

         0    0.2000000000000000    0.4000000000000000    0.6000000000000000    0.8000000000000000

Column 6

    1.0000000000000000

>> a(2) %accéder à la deuxième valeur du vecteur a

ans =

    0.2000000000000000
```

Exercice 2 :

```

>> v=[8 -1 13 -4 7 6];
>> v(2)

ans =

    -1

>> v(2:4)

ans =

    -1    13    -4

>> v(5:-2:1)

ans =

     7    13     8

>> v(3:end)

ans =

    13    -4     7     6

>> v(1)=-1

v =

    -1    -1    13    -4     7     6

>> v(7)=-1

v =

    -1    -1    13    -4     7     6    -1

>> v(2)=[]

v =

    -1    13    -4     7     6    -1

```

Exercice 3 :

```
>> x=[1;2;3]
```

```
x =
```

```
1  
2  
3
```

```
>> y=[4;5;6]
```

```
y =
```

```
4  
5  
6
```

```
>> x+y
```

```
ans =
```

```
5  
7  
9
```

```
>> z1=x.*y % multiplication element par element
```

```
z1 =
```

```
4  
10  
18
```

```
>> z1=x.\y % division element par element de y par x
```

```
z1 =
```

```
4.000000000000000  
2.500000000000000  
2.000000000000000
```

```
>> z1=x./y % division element par element de x par y
```

```
z1 =
```

```
0.250000000000000  
0.400000000000000  
0.500000000000000
```

```
>> z1=x.^y
```

```
z1 =
```

```
    1  
   32  
  729
```

```
>> length(z1)
```

```
ans =
```

```
    3
```

```
>> u=linspace(1,20,5)
```

```
u =
```

```
1.0000000000000000  5.7500000000000000 10.5000000000000000 15.2500000000000000 20.0000000000000000
```