



TP7 LES FONCTIONS

```
function y=f(x)
    y=3*x^2+5*x-2
endfunction
```

```
function p=factorielle(n)
    p=1
    for k=1:n
        p=p*k
    end
endfunction
```

```
function s=somme(n)
    s=0
    for k=0:n
        s=s+1/factorielle(k)
    end
endfunction
```

```
function y=g1(x)
    if x==0 then y=1
    elif x>0 then y=log(x)/(2*x)
    else y=exp(-1/x^2)
    end
endfunction
```

```
function y=g(x)
    y=sqrt(6+sqrt(3*x))
endfunction
```

```
function U=SuiteU(n)
    U=100
    for k=1:n
        U=g(U)
    end
endfunction
```

```
function n=seuil(s)
    n=0
    u=100
    while abs(u-3)>s
        n=n+1
        u=g(u)
    end
endfunction
```



```
function r=EntAlea(a,b)
    r=floor((b-a+1)*rand()) + a
endfunction
```

```
NbPile=0
for k=1:100
    r=EntAlea(0,1)
    if r==1 then
        NbPile=NbPile+1
    end
end
disp(NbPile)
```

```
// rang du premier Pile
r=EntAlea(0,1)
n=1
while r==0
    n=n+1
end
disp(n)
```