

Scripts de Python1

Le script `seconddegre.py` :

```
from math import sqrt
# forme canonique de  $a*x^2+b*x+c$ 
def canonique(a,b,c):
    if a==0:
        raise ZeroDivisionError
    xs=-b/(2*a) # a vous de completer
    ys=-(b**b-4*a*c)/(4*a) # a vous de completer
    return "%.4f*(x+%.4f)**2+%.4f"%(a,-xs,ys)

# resout  $a*x^2+b*x+c=0$ 
def racines(a,b,c):
    if a==0:
        raise ZeroDivisionError
    delta=b**2-4*a*c # a vous de completer
    if delta>0:
        x1=(-b-sqrt(delta))/(2*a)
        x2=(-b+sqrt(delta))/(2*a) # a vous de completer
        return [x1,x2]
    elif delta==0:
        xs=-b/(2*a) # a vous de completer
        return [xs]
    else:
        return []
```

Le script `sapin.py` :

```
def sapin(n):
    print(" "*n+"*")
    for i in range(n):
        print(" "*(n-i)+"+"*(2*i+1))
    print(" "*n+"+")
```