Exercice 1

① cf le cours.

②
```
import math as m
def dernier (L):
    return 1 / m.exp (L[-1])
```

③
(a)
```
import math as m
def suite(n):
    u = 1
    for k in range (1, n+1):
        u = m.sqrt (k-1) + u
    return u
```

$$\left(u_n = \sqrt{u_{n-1} + k - 1} \quad \triangle \right)$$

(b)
```
def liste_termes (n):
    L = [0]
    for k in range (n):
        L.append (suite(k))
    return L
```

```
import math as m.
def liste_termes_mieux (n):
    L = []
    u = 1
    for k in range(n):
        L.append (u)
        u = m.sqrt (k+u)
    return u
```