Diagramme de distribution d'un couple acido-basique

In [9]:

```
# Import des bibliothèques

import matplotlib.pyplot as plt
import numpy as np
```

In [12]:

```
def diagramme(pKa):
    pH = np.arange(0,15,0.1)
    X = 10**(pH-pKa)      # X = Cb/Ca =Pb/Pa
    Pb = X*100/(1+X)      # % de base faible
    Pa = 100-Pb           # % d'acide faible

    plt.figure (figsize = (10,8))
    plt.plot(pH,Pa,"r+-",label="acide")
    plt.plot(pH,Pb,"b+-",label="base")
    plt.xlabel("pH")
    plt.ylabel("%")
    plt.legend()
    plt.grid()
    plt.title ("Diagramme de distribution d'un couple acide faible/base faible")
    plt.show
```

In [13]:

```
pKa = 4.8
diagramme (pKa)
```

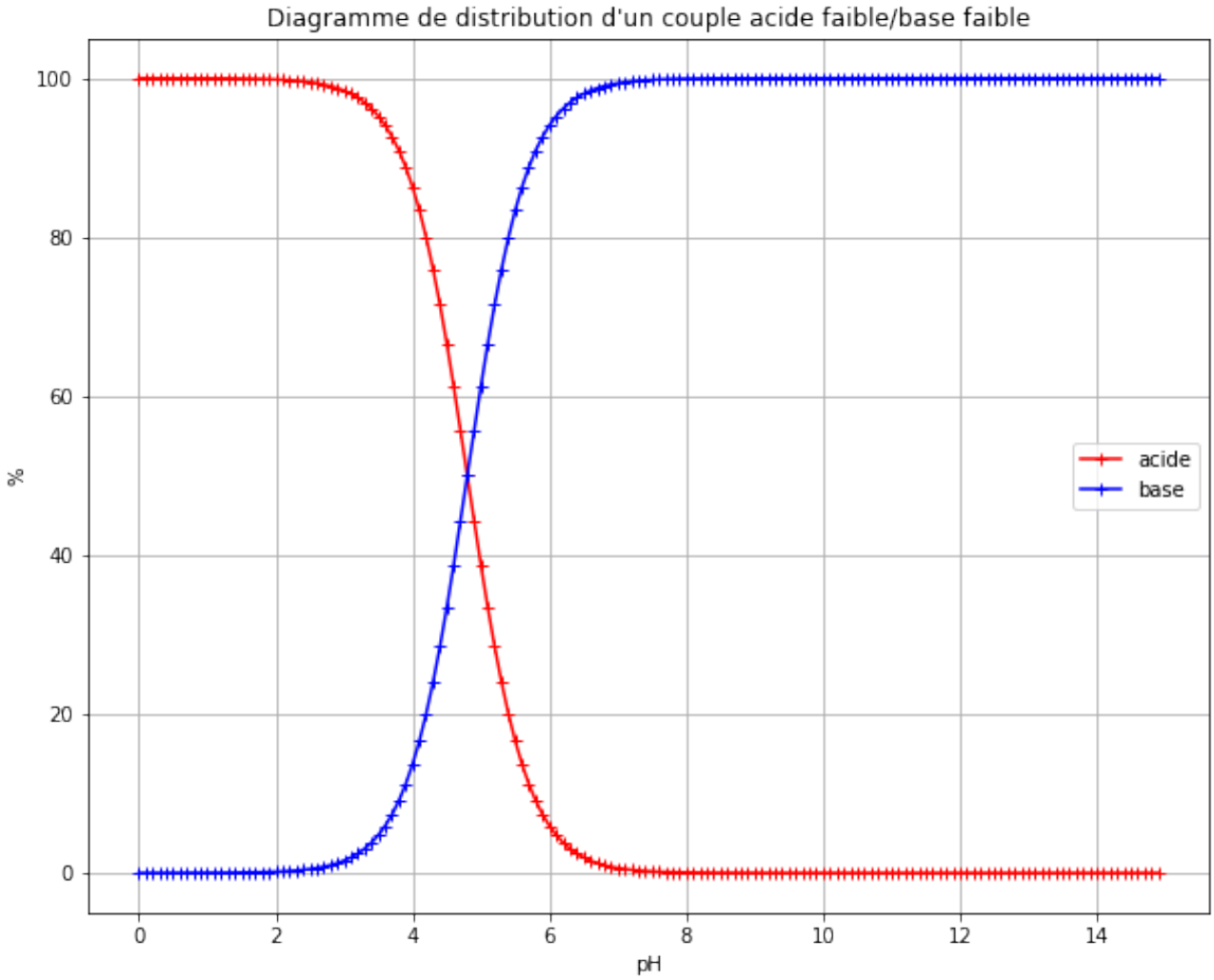
Diagramme de distribution d'un couple acide faible/base faible
100
80
60
40
20
0
%
0
2
4
6
8
10
12
14
pH
acide
base

In [ ]: