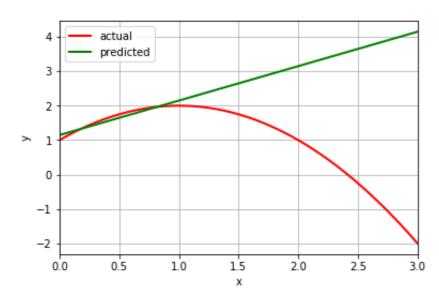
Homework 3 17/9/25 下午12:51

```
In [8]:
            1 import numpy as np
            2 import matplotlib
            3 import matplotlib.pyplot as plt
            4 from sklearn import datasets, linear model, preprocessing
            5 import numpy.polynomial.polynomial as poly
            6 %matplotlib inline
            7
            8
            9 beta = np.array([1, 2, -1])
           10 \text{ nsamp} = 10
           11 xdat = np.linspace(0, 1, nsamp)
           12 ydat = poly.polyval(xdat, beta)
           13 d = 1
           14 beta_hat = poly.polyfit(xdat, ydat, d)
          [ 1.14814815 1.
                                   ]
In [14]:
            1 \text{ xp} = \text{np.linspace}(0, 3, 100)
            2 yp = poly.polyval(xp, beta)
            3 yp hat = poly.polyval(xp, beta hat)
```

Out[21]: <matplotlib.text.Text at 0x1151fc400>



Homework 3 17/9/25 下午12:51