Numeriska metoder Python

Linjär algebra numpy

```
# -*- coding: utf-8 -*-
Spyder Editor
This is a temporary script file.
111111
import numpy as np
x=np.array([[1,2,3,4]])
A=np.array([[1,2],[3,4],[5,6],[7,8]])
b=np.array([[1,1]])
def test(x,A,b):
  C=np.matmul(x,A)+b
  return C
utdata=test(x,A,b)
```

$$x = [1, 2, 3, 4] \quad \mathbb{R}^{1 \times 4}$$

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \\ 7 & 8 \end{bmatrix} \quad \mathbb{R}^{4 \times 2}$$

$$b = [1, 1] \quad \mathbb{R}^{1 \times 2}$$

$$C = Ax + b \quad \mathbb{R}^{1 \times 2}$$