

6)
$$A_{x} = 6$$

$$LR_{x} = P6$$

$$Q_{x} = Y$$

```
2
                      3
                      1
            \circ
                      O
          Ly Ruck wants einset zen (zuerst xz...)
            7 \times 1 + 3 \times 2 + 4 \times 3 = 1
                      x2 + 2 × 3 = 7
3 × 3 = 3
                        ×1 = 0 ×1 = -1.5
            k ~ = 1
  Ousere Lösung ist identisch
                                                                P =
import scipy as sp
                                                                 [[0. 1. 0.]
import numpy as np
                                                                 [1. 0. 0.]
                                                                 [0. 0. 1.]]
A = np.array([[0.8, 2.2, 3.6], [2.0, 3.0, 4.0], [1.2, 2.0, 5.8]])
                                                                L =
                                                                 [[1. 0. 0.]
result = sp.linalg.lu(A)
                                                                 [0.4 1. 0.]
[0.6 0.2 1.]]
print("P =\n", result[0])
                                                               R =
print("L =\n", result[1])
```

print("R =\n", result[2])

[[2. 3. 4.]

[0. 1. 2.] [0. 0. 3.]]