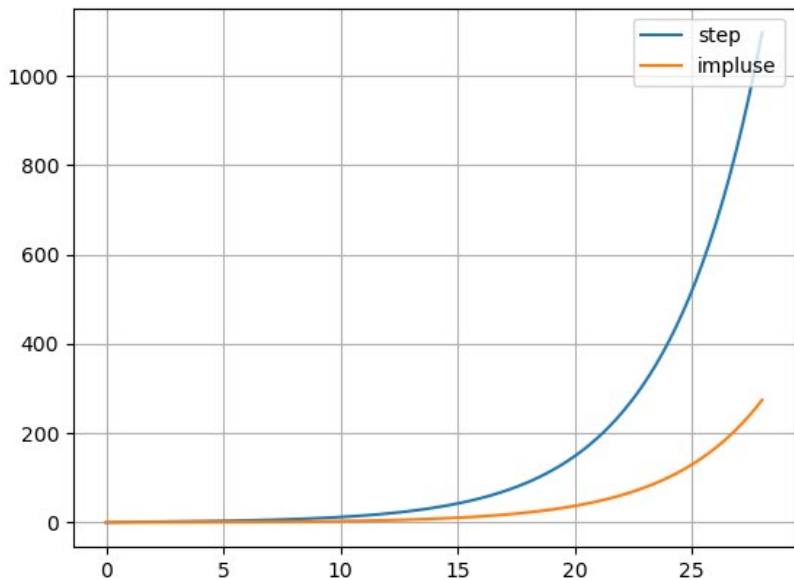


5.1 b)



5.1 c&d

Nullstellen: [0.]

Polstellen: [-0.75 0.25]

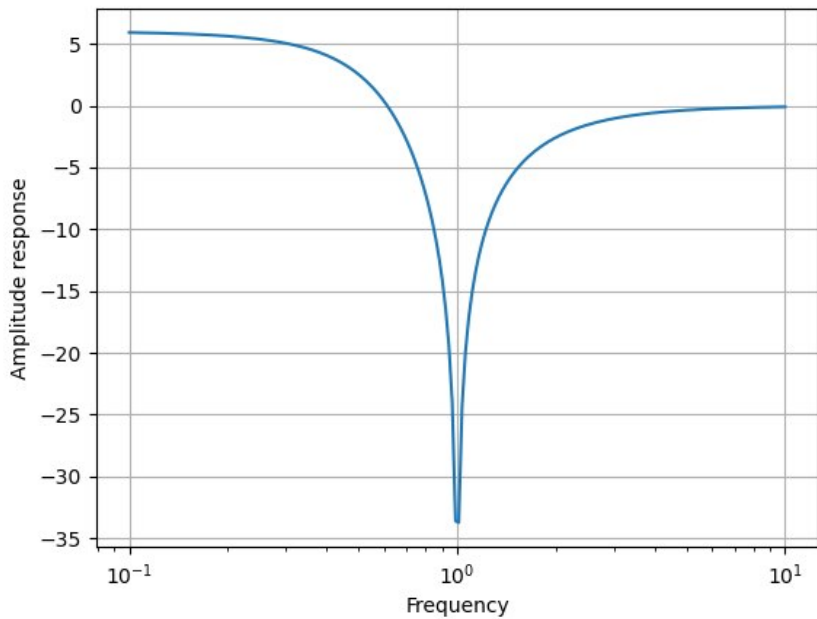
Verstärkungsfaktor: 1.0

Zustandsraumdarstellung: [[-0.5 0.1875]

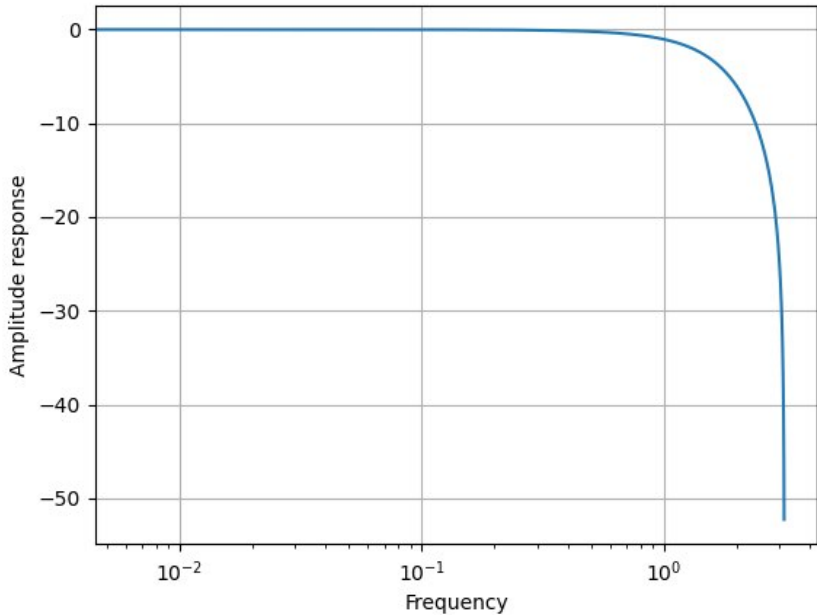
[ 1. 0. ]][[1.]

[0.]]][[1. 0.]]][[0.]]

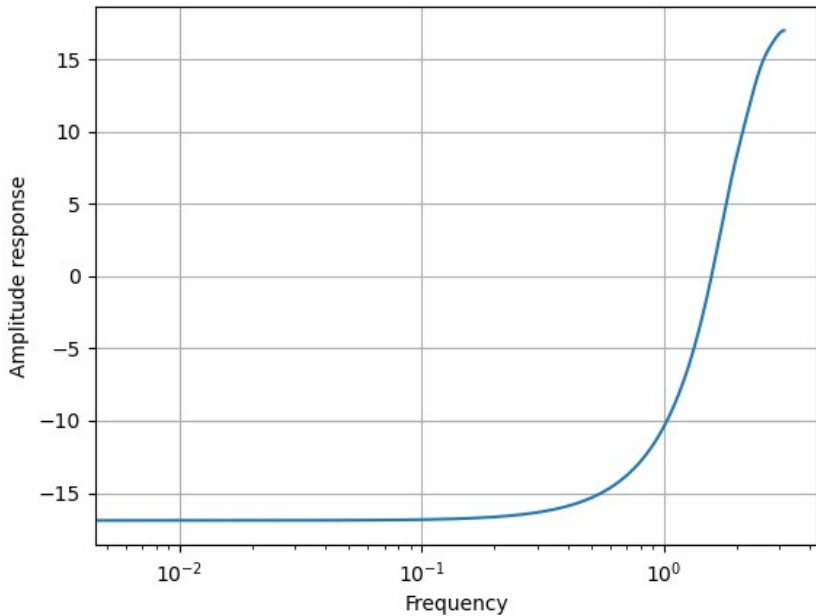
5.2 a)



### 5.3 a) Tiefpass



### 5.3 b) Hochpass



### 5.3 c) Bandpass

