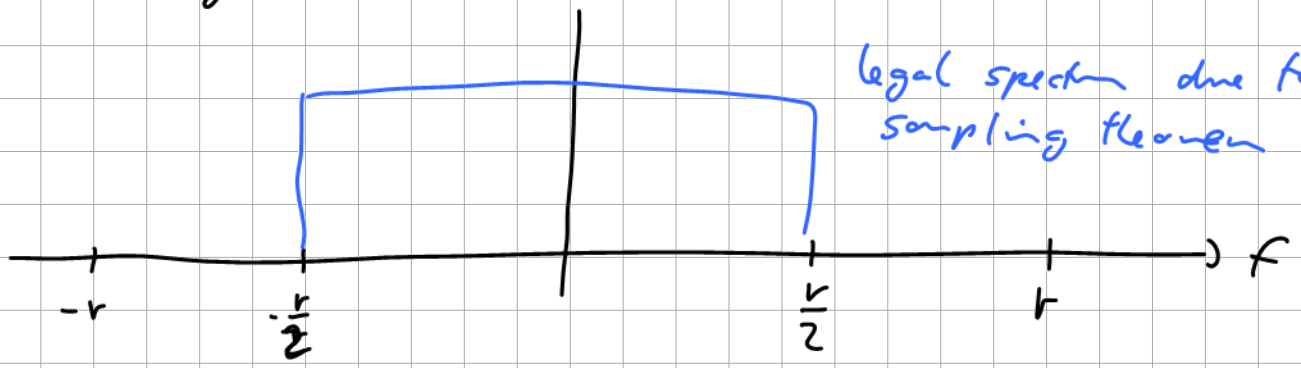
Exam Preparation
Chapter 2) 2 T 7

sampling theorem

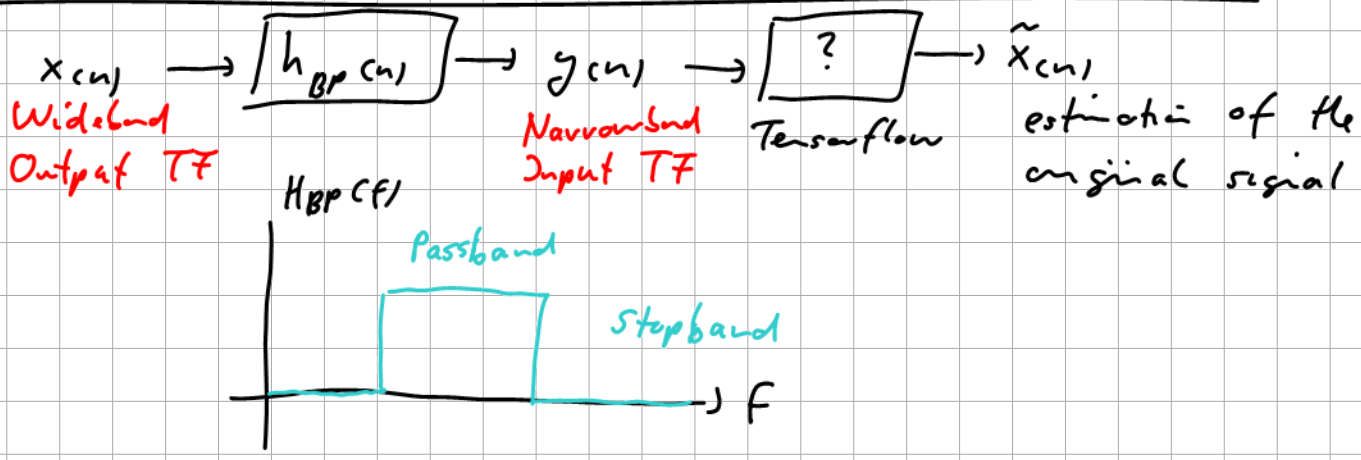


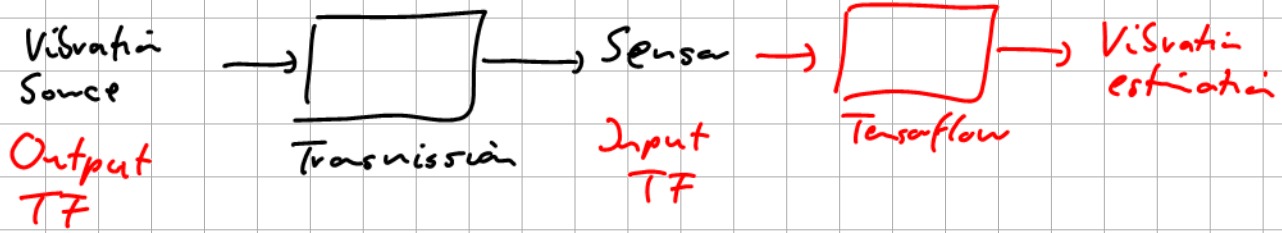
C2) 2 T6

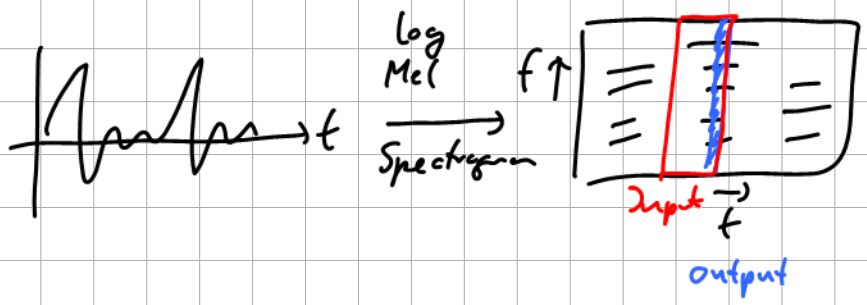
$\vec{x} = (1 \quad 2 \quad 3)$

$y = [4 \quad 5 \quad 6]$

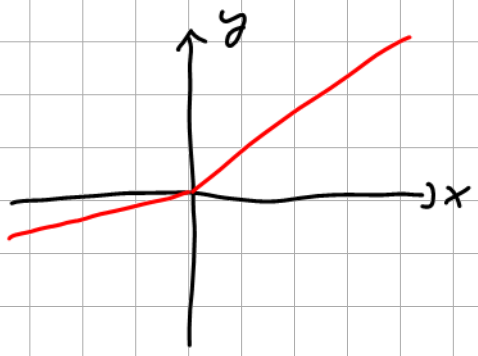
$$a = \frac{1 \cdot 4 + 2 \cdot 5 + 3 \cdot 6}{4 \cdot 4 + 5 \cdot 5 + 6 \cdot 6}$$







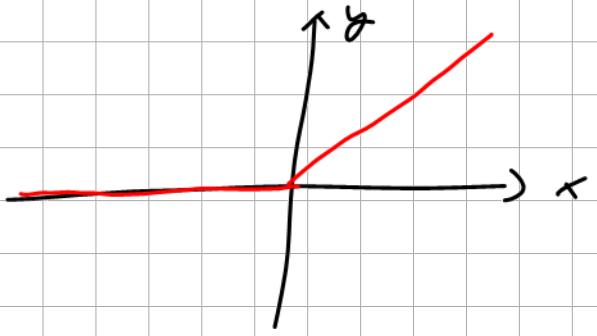
Leaky ReLU



$$y = \begin{cases} x, & \text{for } x > 0 \\ ax, & \text{else} \end{cases}$$

$0.0 < a < 0.3$

ReLU



$$y = \begin{cases} x, & \text{for } x > 0 \\ 0, & \text{else} \end{cases}$$

$y = np.maximum(x, 0.0)$