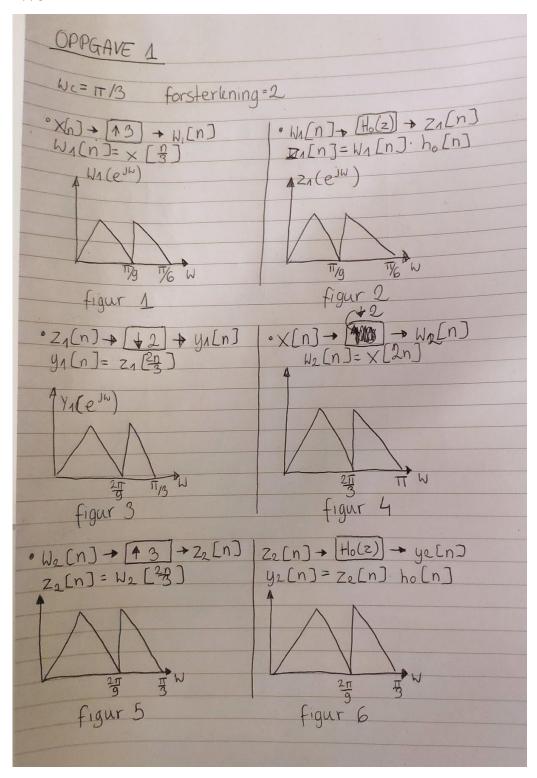
Oppgave 1



Oppgave 2

a) Vi har

$$h[n] = \frac{1}{K} \sum_{k=0}^{K-1} \delta[n-k]$$

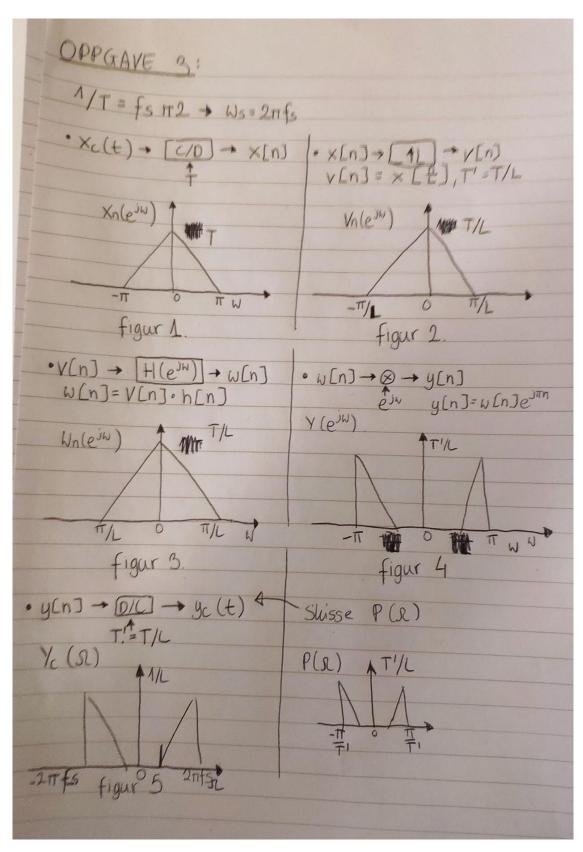
Altså

$$H(e^{j\omega}) = \frac{1}{K} \sum_{k=0}^{K-1} e^{-kj\omega}$$

Vi bruker geometriske rekker og får

$$H(e^{j\omega}) = \frac{1}{K} \frac{1 - e^{-kj\omega}}{1 - e^{-j\omega}}$$
$$H(\Omega) = \frac{1}{K} \frac{1 - \Omega^{-k}}{1 - \Omega^{-1}}$$

Oppgave 3



Oppgave 4-2

Svar: Alternativ b)

Oppgave 4-5

Svar: Alternativ b)