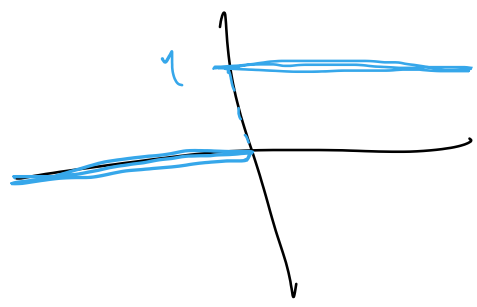
2.02

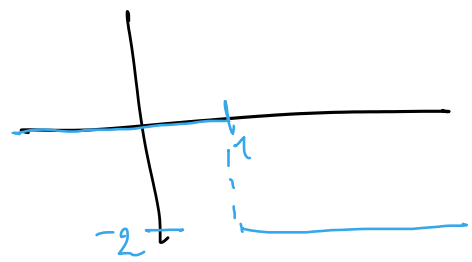
torsdag 25 januari 2024 14:38

$$v(t) = \theta(t) - 2\theta(t-1) + \theta(t-2)$$

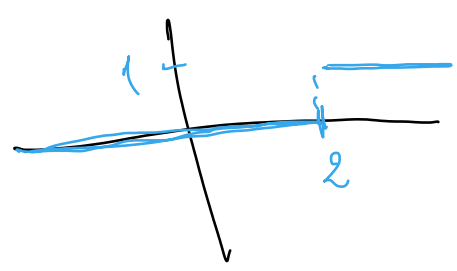
$$\theta(t) = \begin{cases} 1, & t > 0 \\ 0, & t < 0 \end{cases}$$



$$-2\theta(t-1) = \begin{cases} -2, & t > 1 \\ 0, & t < 1 \end{cases}$$



$$\theta(t-2) = \begin{cases} 1, & t > 2 \\ 0, & t < 2 \end{cases}$$



$0 < t < 1 \rightarrow v(t) = 1 + 0 + 0$

$1 < t < 2 \rightarrow v(t) = 1 - 2 + 0$

$2 < t < \infty \rightarrow v(t) = 1 - 2 + 1$

Sv: