W(s) = 1 (1/1+5); W(s) = 1 (1/1+5); W(t) = W(s); H(s) = 1. W(s); $|N(s) = \frac{1}{s} \cdot W(s) = \frac{1}{s} \cdot \frac{1}{f(1/f+s)} = \frac{1}{f(s)} \cdot \frac{1}{f(1/f)} = \frac{1}{f(s)} \cdot \frac{1}{f(s)} = \frac{1}{f(s)} \cdot \frac{1$ $\frac{BD}{W(s)} = \frac{sT}{1+sT}; W(s) = \frac{sT+1-1}{1+sT} = \frac{sT+1}{1+sT} - \frac{1}{1+sT} = 1 - \frac{1}{1+sT} = 1 - \frac{1}{1+sT} = \frac{1}{$ (63) $W(s) = \frac{1-sT}{1+sT}$; $W(s) = \frac{1-sT+1-1}{1+sT} = \frac{-1-sT}{1+sT} + \frac{2}{1+sT} = -1 + \frac{2}{7(1-ts)} = \frac{-1-sT}{7(1-ts)}$ $= \frac{4+\sqrt{1.2}}{s(1+2\sqrt{51})} - \frac{\sqrt{51}}{s} = \frac{1}{1+\sqrt{1.2}} - \frac{1}{s} = \frac{1}{2T(1/\sqrt{1+5})} = \frac{1}{s} - \frac{1}{2(1/\sqrt{1+5})} = \frac{1$ $|W(s)| = \frac{s+1}{2s+1} + \frac{1}{5}, |H(s)| = \frac{1}{5}|W(s)| = \frac{5+1}{5(2s+1)} + \frac{1}{5^2} = \frac{5+1+5-5}{5(2s+1)} + \frac{1}{5^2} = \frac{2s+1}{5(2s+1)} + \frac{1}{5^2} = \frac{2s+1}{5(2s+1)} + \frac{1}{5^2} = \frac{2s+1}{5(2s+1)} + \frac{1}{5^2} = \frac{2s+1}{5(2s+1)} + \frac{1}{5(2s+1)} + \frac{$ $\frac{1}{4} W(s) = \frac{s-1}{s+1} + e^{-s}; H(s) = \frac{1}{3} W(s) = \frac{1}{3} (\frac{s-1}{s+1} + c^{-s}) = \frac{s-1+s-s}{s(s+1)} + \frac{e^{-s}}{s(s+1)} = \frac{-s-1}{s(s+1)} + \frac{2s}{s(s+1)} + \frac{e^{-s}}{s(s+1)} = \frac{-s-1}{s(s+1)} + \frac{2s}{s(s+1)} +$ $(354) = e^{5} \cdot \frac{5-1}{5+1} : H(s) = \frac{1}{5} \cdot W(s) = e^{-5} \cdot \frac{5-1}{5+1} = e^{-5} \left(\frac{5-1+5-5}{5(5+1)} \right) = e^{-5} \cdot \left(\frac{5-1}{5(5+1)} + \frac{25}{5(5+1)} + \frac{25}{5(5+1)} \right) = e^{-5} \cdot \left(\frac{5-1}{5(5+1)} + \frac{25}{5(5+1)} +$ $=e^{\frac{1}{5}\left(-\frac{1}{5}+\frac{2}{5+1}\right)}=-\frac{1}{5}\cdot e^{\frac{1}{5}}+\frac{2e^{-5}}{5+1}=\left(-1+2e^{-1-t}\right)\cdot 1(t-1), \ 7\cdot \kappa\cdot f(t-2)=e^{-\frac{1}{5}c}F(5).$ $|V| = 3|D| \times |t| = 1 + t^{2}; t^{2} \Rightarrow \frac{2}{5^{2}}; 1 \Rightarrow \frac{1}{5}; (x(5)) = \frac{1}{5} + \frac{2}{5^{3}}; (x(5)) = \frac{1}{5} + \frac{2}{5^{3$ By W(s) = (1+e-s) = 2-1 + W(s) = (1 + 1) = 1 + W(s) = 1 B4 W(s)=(1+e-5). 52-1; H(s)=1.W(s)=1.(1+e-5). (5-1)(s+1) = 1.(1+e-5).(5-1)= =(1+1)=1-1+es-es=1+0(t-1)-0(t-1)-0(t-1). (1) (5) = (im (1+e3), 52-1 = (im (1+e3)(5-1) = = > cpuj reperning)

Cice a grey peancy, cenu h(0+)=0, v.e. h(+)=lims/1/5)=lim (1/5); $W(5) = \frac{5-1}{5+1}; H(5) = \frac{1}{5}, W(5) = \frac{1}{5}; \frac{5-1}{5+1} = \frac{1}{5}; \frac{5-1+1-1}{5+1} = \frac{1}{5}; \frac{(5+1)}{5+1}$ (1 = 1 - 2 (1-et)=1-2+2et= 2et-1=h(t); h(0+) = limb(t) = lim(2e-1) = 1+0=7 quy respects. $W(s) = e^{-s} \cdot \frac{s^2 - 1}{s + 1} \cdot H(s) = \frac{1}{s} W(s) = \frac{1}{s} \cdot e^{-s} \cdot \frac{s^2 - 1}{s + 1} = \frac{1}{s} \cdot e^{-s} \cdot \frac{(s - 1)(s + 1)}{s + 1} = \frac{e^{-s}(s - 1)(s + 1)}{s} = \frac{e^{-s}(s - 1)($ Wim W(s) = lime-s, 5-1 = lim (s+1)(s-1) - lim 5-1 = 0 = 2 goog par 5-2 5-2 5+1 5-0 = 5(5+1) 5-0 €5 → priese disepper -1)-1(t-1)=h(t); limh(t)=lim(ott-1)-1t $h(t) = \hat{W}(1(t)); \otimes \hat{W}(1(t)) + \hat{W}(5.1(t-1)) = \hat{W}(1(t)) + 5\hat{W}(1(t-1)) = \frac{15+5e^{-t\eta/T}}{6-e^{-t\eta/T}+5\cdot e^{-(t-1)}}; 2) \times (t) = \int \hat{W}(t) \cdot u(t-\tau)$ $\begin{array}{l} = 1/\sqrt{-h(v-y)} = c - c \\ \hline \\ \hat{B}^{2}W(s) = \frac{1-sT}{1+sT} ; i)\hat{a(t)} = \begin{cases} 0, t < 0; \\ 5, t \in C_{0}, 53; \\ 1/t > 5; \end{cases} & \text{if } t = 5 \cdot 1/t - 6 \cdot 1/t - 5 \text{if } t > 5; \\ = \hat{W}(5 \cdot 1/t) - 6 \cdot 1/t - 5 \text{if } t > 5; \\ = 5 \cdot (1-2e^{\frac{t}{2}T}) - 6 \cdot (1-2e^{\frac{t}{2}T}) -$ 1)(ult)=1(t)-1(t-1); x(t)=W(ul·))=W(ult)=W(1(t)-1(t-1))= =[h(t)-h(t-1)]=(t-1e^{t/27})-(1-1e²⁷)=1(e²⁷-e³⁷ 2)(x(t)= [w(t).u(t-t)= [(= (t)+1e-1/27)-u(t-t)d2), T. K. u(t)=0, t=0.