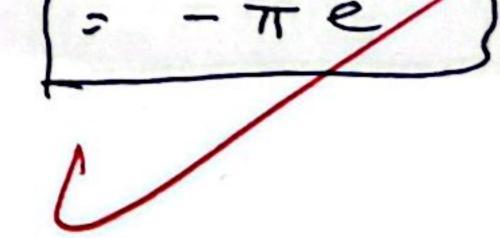
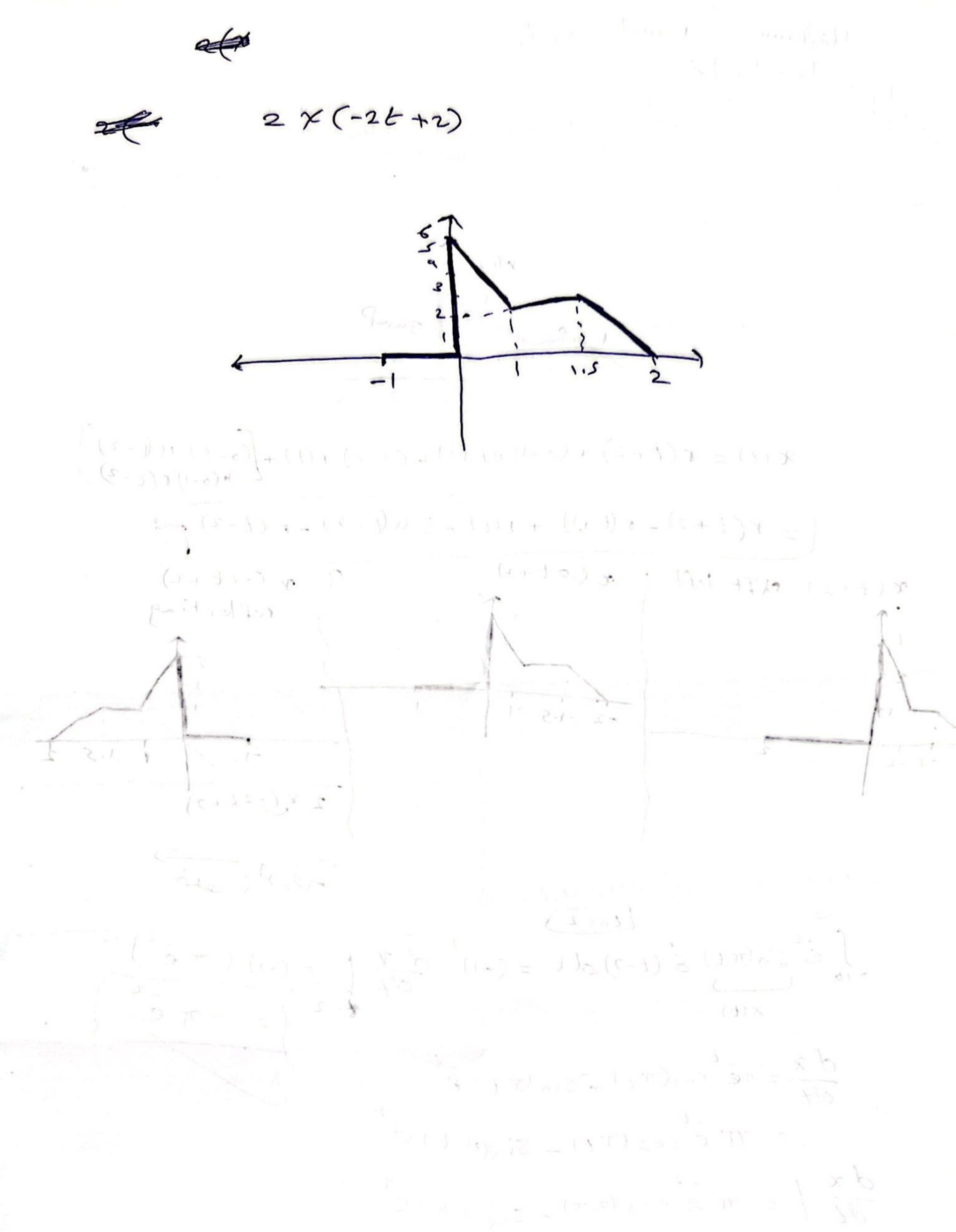


= r(t+2) - r(t+1) + r(t) - 3u(t-2) - r(t-2) $\chi(t+2)$ shift left $|\chi(2t+2)|$ x (-2t+2) reflecting -2 -1.5 -1 -4 -3 -2 2×(2++2) خلف لراحة 2. Compute the integral $\int_{-10}^{10} e^{-t} \sin(\pi t) \dot{\delta}(t-2) dt$. $\tilde{e}^{t}sin(\pi t) \tilde{s}(t-2)dt = (-1) \frac{d\chi}{dt}$ = (-1) (Te , X(t) 7 $\frac{dx}{dt} = \pi \tilde{e}^{t} \cos(\pi t) + \sin(\pi t) \tilde{e}^{t}$ = $\pi e^{t} \cos(\pi t) - \sin(\pi t) e^{t}$ $\frac{dx}{dt} = \pi e^{2} \cos(2\pi) - \sin(2\pi) e^{2}$ $t^{n=2} = \pi \hat{e}(1) - 0$ = TT é2 **STUDENTS-HUB.com**



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2

(-) - (I) P T -

Using the convolution integral, find the system response, y(t), when the input is

