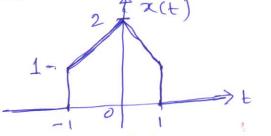
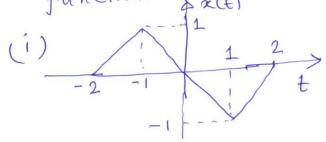
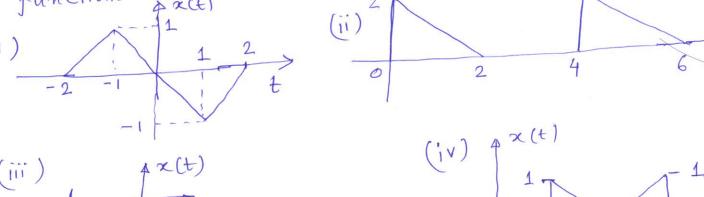
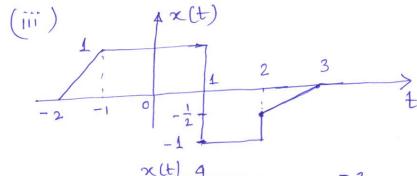
- Q1) Find the even & odd parts of the following signals. (i) 8mm (2t+ \(\frac{1}{2}\)) (ii) 1-2t+3t3 (iii) soin 2t + soin 2t cos 2t + cos 2t (iv) e
- Check whether the following signals are even or odd. Also sketch Them (i) e4t (ii) u(t+2) - u(t-2) (c) e
- The signal x(t) is as shown: -

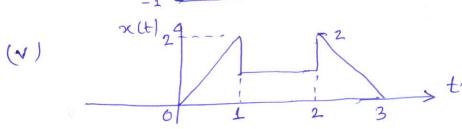


- (i) x(2t+2) (ii) $x(\frac{1}{2}t-2)$ (iii) x(-t-2)
- (iv) 3x (5t)
- (v) Also sketch dx.
- (Q4) Express The following roignals as sum of singular functions, pact)









Tut-1

Sketch The following signals

(i) u(-t+4) (ii) $\gamma(t+4)$ (iii) $-2\gamma(t-2)$ (iv) $\gamma(t)$ u(-t+3) (v) $\gamma(t)$ $-2\gamma(t-2)$ $+\gamma(t-4)$ (i) $\gamma(t)$ $\gamma(t)$

- 0 -

2

Additional Question: Twill get the total solv of the equation: $2\frac{d^2y}{dt^2} + 3\frac{dy}{dt} + y(t) = 2c(t)$ B.c.: $y(0^-) = 0$ and $\frac{dy}{dt}(0^-) = 1$ o) of x(t) = 5i) of $x(t) = t^2$ ii) of x(t) = cos(t)