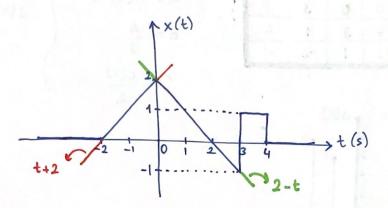
## Quiz 1 Solution

A continuous time signal x(t) is given in the figure below.

- a) Express x(t) in terms of wit step functions. (5 points)
- b) Sketch y(t)= 2 x(2t+1) (5 points)



a)  $x(t) = (t+2) \cdot [u(t+2) - u(t)] + (2-t) \cdot [u(t) - u(t-3)] + [u(t-3) - u(t-4)]$ =  $(t+2) \cdot u(t+2) - 2 \cdot t \cdot u(t) + (t-1) \cdot u(t-3) - u(t-4)$ 

