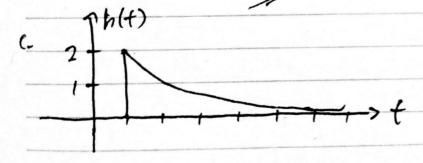
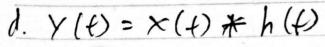
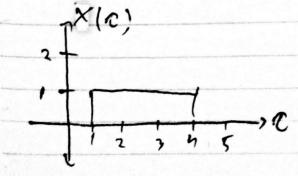


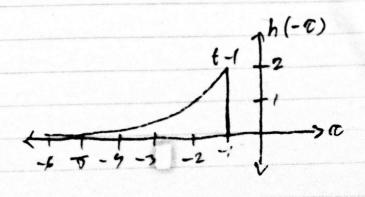
b.
$$h(\ell) = h_1(t) \# h_2(t)$$

= $2e^{-2\ell}u(\ell) \# \delta(\ell-1)$
= $2e^{-2\ell}v(\ell-1)$









$$0 \le \epsilon < 2$$

$$\gamma(\epsilon) = 0$$

$$2 \le t 25$$

$$Y(t) = \int_{1}^{t-1} 1 \cdot 2e^{-2c} dc$$

$$= -\frac{1}{2} \cdot 2e^{-2c} \int_{1}^{t-1} e^{-2c} dc$$

$$= -e^{-2t-2} - (-e^{-2})$$

$$= -e^{-2t+2} + e^{-2}$$

$$Y(t) = \int_{1}^{4} 1.2e^{-2x} dx$$

$$= -\frac{1}{2}e^{-2\pi} = e^{-2} - (e^{-2})$$

$$= -e^{-2} - e^{-2}$$

$$= e^{-2} - e^{-2}$$

$$= e^{-2} - e^{-2}$$

