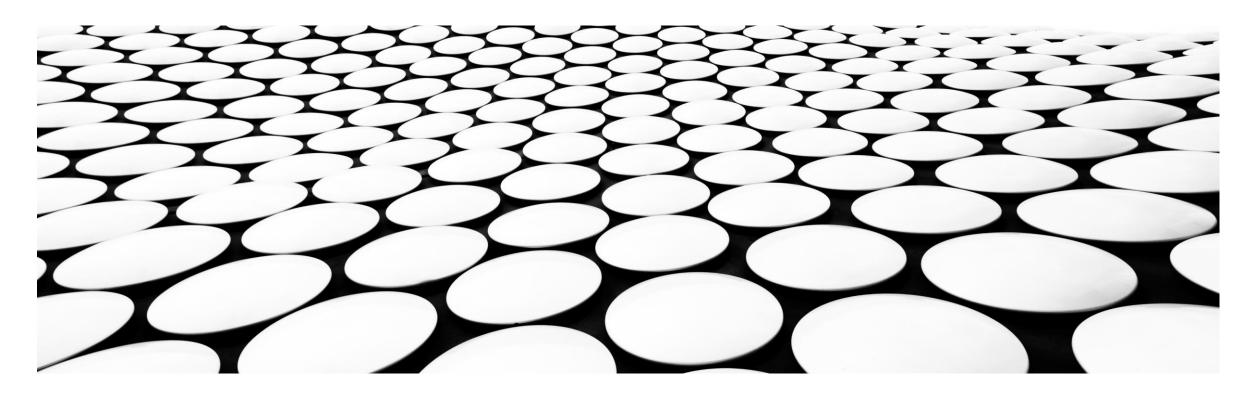
SIGNALS & SYSTEMS

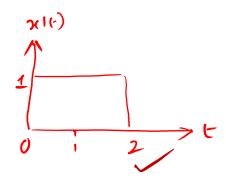
MR. ANKUR JYOTI SARMAH

ASSISTANT PROF., DEPT. OF ELECTRONICS & TELECOM. ENGG.

ASSAM ENGINEERING COLLEGE

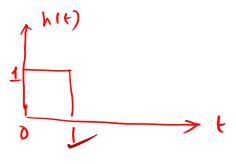


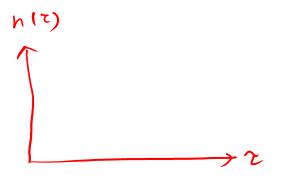
Graphical Convolution



501":- 5rep 1

x(2)

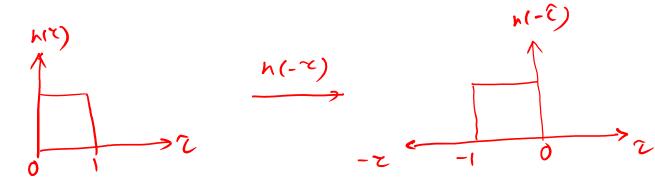




Both Rectonaler pulse

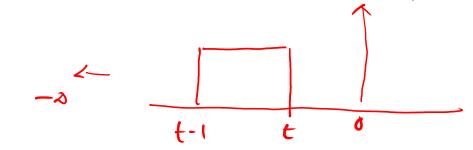


Grap 2:- Time Revosal of h(2)



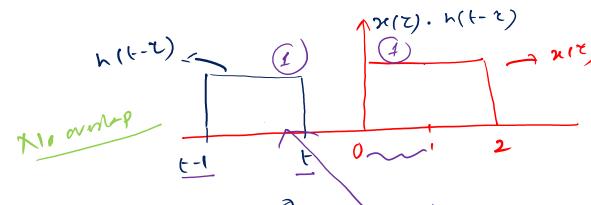
1/

Laft lagt



h(t-2)

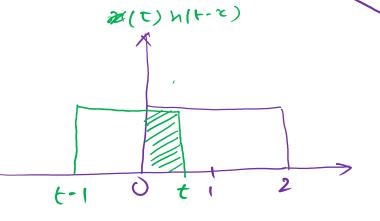




$$y(t) = \int_{-\infty}^{\infty} x(z) h(z-z) dz = 0$$

(-1 -) t

0< t<1



overlapped Region

Shift the possessions signed by t unit towneds signt

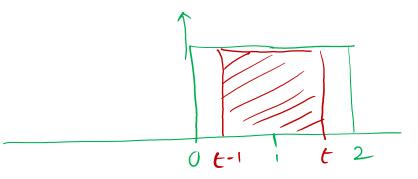
$$y(t) = \int_{0}^{t} 1 \cdot 1 \cdot 1 \cdot 2 = L^{2}$$

$$= L^{2}$$



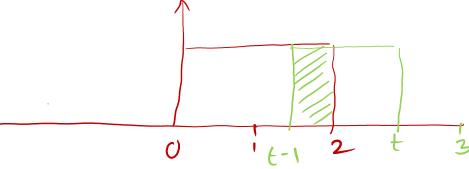
W123:-

1262



$$y(t) = \int_{t-1}^{t} 1.1. dz = (\tau)^{t} = t - t + 1 = 1.$$

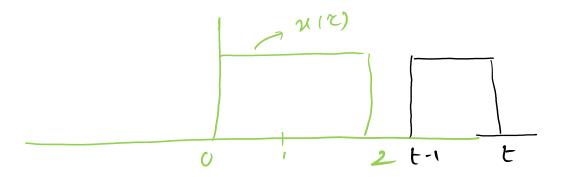
Care 4:-



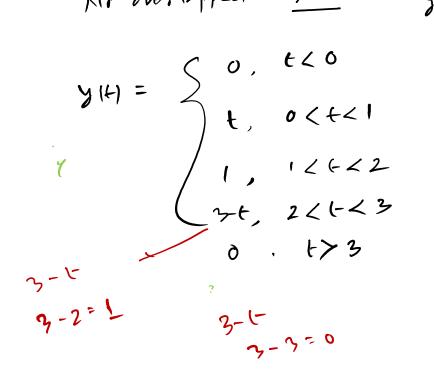
$$= 2 - t + 1 = 3 - t$$
.

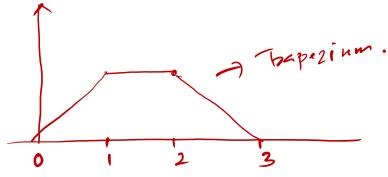


W765:-



Mr over lapped Region





Triangular pulse.

