## CE Shed 4 301.

## Problem 1)

Recall,

•  $(ect(\frac{+}{3}) \leftrightarrow 5inc(\frac{5}{2}).5$  $5inc(t.\frac{3}{3}) \leftrightarrow 2tc. (ect(\frac{1}{3}))$ 

N( 1) - 216 x (- W)

. In Convolution, the Startinglanding Point of the result 9s the Jum of Startinglanding Points of the 9nPuls.

a) 
$$\chi(t) = Sinc(locatet)$$
 $\rightarrow Need BW$ 
 $Sinc(locatet) \leftrightarrow 2tC$ 
 $2 cc$ 
 $2 cc$ 

Nyquist Rak = 2xB = 2x50=100 Hz