

Lecture 9

14) Two finite length sequences $x_1[n]$ and $x_2[n]$.

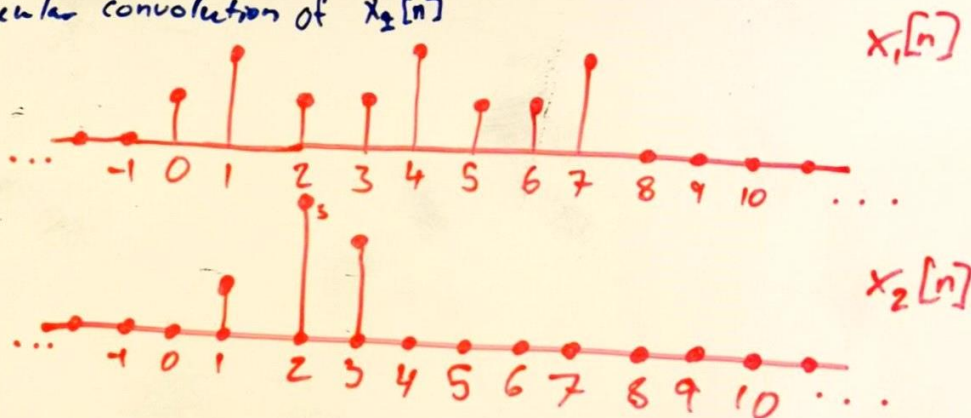
Assume $x_1[n]$ and $x_2[n]$ are zero outside the fig.

Let $x_3[n]$ eight point circular convolution of $x_1[n]$

with $x_2[n]$ i.e.;

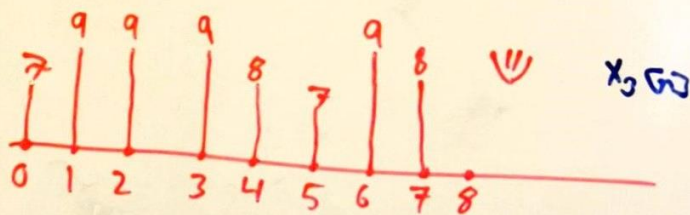
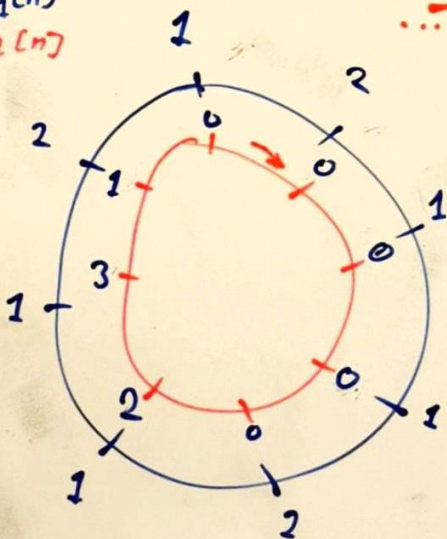
$$x_3[n] = x_1[n] \otimes x_2[n].$$

Determine $x_3[2]$



$x_1[n]$

$x_2[n]$



$$x_3[2] = 9$$