Let

Ok be drawn as below:

Find the corresponding signal x []

Soln:  $x [n] = \sum_{i=1}^{2} a_{i} e^{jk} \frac{2\pi}{N} n$ 

and we see N=4

 $= 1.e^{-\frac{1}{2}} \frac{2\pi}{4} + 1 + 1.e^{\frac{1}{2}} \frac{2\pi}{4}$ 

$$= 1 + 2 \cos\left(\frac{2\pi n}{4}\right)$$