· Y(n) = 2 [n]

 $Y_{1}(e^{j\omega})$

$$X_{p}(e^{j\omega}) = \frac{1}{L} \times (e^{j(\omega - ka\pi)}) \times (e^{$$

$$S(\omega) = S(\omega - \overline{\Lambda}) = S(\omega - \overline{\Lambda})$$

$$S(\omega) = S(\omega - \overline{\Lambda}) = S(\omega - \overline{\Lambda})$$

$$S(\omega) = S(\omega - \overline{\Lambda}) = S(\omega - \overline{\Lambda})$$

$$\times (e^{j\omega})$$
 $\times (e^{j\omega})$

Consi del

 $X(e^{j\omega})$

be non zero fran

$$Y_{1}(e^{j\omega}) = \frac{1}{2} \times (e^{j\omega/2}) + \frac{1}{2} \times (e^{j\omega/2}) \times (e^{j\omega/2}) = \times (e^{j\omega})$$

$$\times (e^{j\omega/2}) = \times (e^{j\omega/2})$$

$$\times (e^{j\omega/2})$$

 $= \frac{1}{2} \times \left(e^{j\omega/2}\right) + \frac{1}{2} \times \left(e^{j(\omega/2-\sqrt{1})}\right)$

$$Y_{1}(e^{j\omega}) = \frac{1}{3} \times (e^{j\omega/3}) + \frac{1}$$

