



o The Pimits of the Summation can be chosen to be different as long as the summation is over N samples.

DTFS by inspection

If the signal is sinoisoidal then we can find the DTFS coefficients by inspection.

$$x = \sum_{k=\langle N \rangle} x [k] \cdot e^{-jk} \sqrt{2n}$$

$$X[-1] = \frac{1}{2} e^{-j\theta}$$

$$\times [1] = \frac{1}{2}$$