$$X(n) \longrightarrow X(2+n)$$

$$X(n) \longrightarrow X(-3n)$$

$$\times (z-3n)$$

$$= 0 \times (2-3n) \cdot u(n)$$

$$Z(n) = 8[n-1] * x(n) = \sum_{k=0}^{10} x(k) - 8[n-1-k]$$

$$= \sum_{k=0}^{+\infty} (8[k+1] + 8[k-1]) = 8[n-1-k] = n=0$$

$$k+1-2-1-k-0$$
  $2k=-2-k=-1$  (8(1) +8(-21)(8(1)) = 8(-1)

-1

$$y[n] = \frac{1}{4} y[n-1] + x[n]$$

$$\frac{1}{4} y(n-2) \frac{1}{4} x[n-1]$$

$$y[n] = \sum_{i=1}^{n} (\frac{1}{4})^{i} \times [n-i] = F$$

$$\sum_{i=1}^{n} (\frac{1}{4})^{i} e^{-ij\frac{3\pi}{4}i} \times [n-i] = F$$

$$\sum_$$

$$X[n] = O((\frac{\pi}{4}n) + 2O((\frac{\pi}{2}n))$$

$$= e^{j\frac{\pi}{4}n} + e^{-j\frac{\pi}{4}n}$$

$$= e^{j\frac{\pi}{4}n} + e^{-j\frac{\pi}{4}n}$$

$$= e^{j\frac{\pi}{4}n} + e^{-j\frac{\pi}{4}n}$$

$$\frac{W = \frac{\pi}{4}}{F} = \frac{1}{2} e \qquad + \frac{1}{2}$$

$$=D \quad y_{ENJ} = \left[ \sum_{i=1}^{N} \left( \frac{1}{4} \right)^{i} e^{\frac{j3\pi}{4}i} \right] \left( \frac{1}{2} e^{jwn} + \frac{1}{2} e^{-jwn} + e^{-j2wn} \right)$$