$$X(K) = \sum_{N=0}^{N-1} x(N) \omega_N^{N} \qquad N = \underline{S}.$$

$$\therefore \chi(\kappa) = \sum_{n=0}^{4} \chi(n) W_{\delta}^{\kappa n}.$$

$$W_{5}^{\circ} = 1$$
 $W_{5} = 0.309 - 0.951 \dot{y}$ $W_{5}^{2} = -0.809 - 0.587 \dot{y}$

$$W_6^3 = -0.8090 + 0.587\dot{y}$$
 $W_5^4 = 0.3090 + 0.9511\dot{y}$.

$$X(1) = 2 + 3W_5 + 5W_5 + 4W_8 + W_8^7 = -4.04 - 2.49y^9$$

$$\chi(2) = 2 + 3\omega_5^2 + 5\omega_5^4 + 4\omega_5^1 + \omega_5^3 = 1.54 - 0.22 \frac{9}{4}$$

$$\chi(3) = 2 + 3\omega_5^3 + 5\omega_5^1 + 4\omega_5^2 + \omega_5^2 = 1.54 + 0.22$$

$$\chi(4) = 2 + 3 \omega_5^4 + 5 \omega_5^3 + 4 \omega_5^2 + \omega_5^2 = -4.04 + 2.49 \dot{g}$$

$$\chi'(R) = \{15, -4.04 + 2.49\dot{y}, 1.54 + 0.22\dot{y}, 1.54 - 0.22\dot{y}.$$

$$x(-n) = \begin{cases} 2 & 1 & 4 & 5 & 3 \\ 7 & 1 & 4 & 5 & 3 \end{cases} = x(n),$$

$$\chi_{1}(1) = 2 + \omega_{5} + 4\omega_{5}^{2} + 5\omega_{5}^{3} + 3\omega_{5}^{4} = -4.04 + 2.49\dot{y}$$

$$\chi_1(2) = 2 + \omega_5^2 + 4\omega_5^4 + 5\omega_5^6 + 3\omega_5^6 = 1.54 + 0.22\dot{y}$$

 $P_{\pm} = \frac{1}{5} \sum_{K=0}^{4} \chi(K) \times \chi(K) = \frac{1}{5} \times 275 = \frac{$

Circulae louve vering clineas Suias come = n(n) + h(n) = 5 n(n) h(n-H) Circular come = n(n) + h(n) = 5 x(1x), h((M-x)) $x(n) = \{1, 2, 3, 4, 5\}$ h(n) = {6, 7, 83 | Longth g chiness cons = 5+3-1 = 7. Curulas vonce = 6 19 40 61 82 13 89 40 61 82.

2 (n) (h) h(n) = {73 59 40 61 82 }

Sinor Countrilion wing Circular.

Ciewles come $y(n) = h(n) \otimes u(n)$. $= x ||f||_{H_{p}} h(n-u)|_{h_{p}}$ Circulas come y(n) = h(n) + u(n)

Sunas come y(n) = h(n) + n(n)
n(K) . h (n-K).

For clineas cining circular, first one make the clinates account to $x(n) = \begin{cases} 1 & 2 & 3 & 4 & 5 \end{cases}$ or plength of clinics come.

h(n) = {6 7 8 0 0 00} 5+3-1 = 7

(A)