Enample i/p

$$7.0 = 0.0 + j0.0$$
 $7.1 = 1.0 + j0.0$
 $9.2 = 2.0 + j0.0$
 $9.3 = 3.0 + j0.0$

$$314 = 4.0+j0.0$$

 $315 = 5.0+j0.0$
 $316 = 6.0+j0.0$
 $317 = 7.0+j0.0$

		1		
2(0)	q(o)	W(0)		X(0)
a(t)	(QC)	Mi)	•	<u> </u>
N(2) (2)	9(2) W8-1 -1	M(2)		x(2)
7(b)	9(3) W8 =-J	(W3)		$\times (3)$
Was -1	9(4)	hly)		<u> </u>
n(5)	9(5)	WS)		x(S)
2(3) Wgo -1	9(6) W. =1	(Mr)		x(b)
2(5)	90 mg=3	(G)		x(7)
W80 -1	-1		Q-000 9	
Staron D	19 Stage	h	Stage 2	

$$W_{N} = \begin{pmatrix} -j \frac{1}{2} \frac{1}{N} \end{pmatrix}^{n} \qquad W_{8} = e^{-\frac{j}{2} \frac{1}{N} \frac{1}{N}} = e^{-\frac{j}{2} \frac{1}{N} \frac{1}{N}}$$

لل

Stage: Calculations:

$$9(0) = \pi(0) + \pi(4) = (0.0 + j0.0) + (4.0 + j0.0) = 4.0 + j0.0$$

$$9(1) = \pi(0) - \pi(4) = (0.0 + j0.0) - (4.0 + j0.0) = -4.0 + j0.0$$

$$9(2) = \pi(2) + \pi(6) = (2.0 + j0.0) + (6.0 + j0.0) = 8.0 + j0.0$$

$$9(3) = \pi(2) - \pi(6) = (2.0 + j0.0) - (6.0 + j0.0) = -4.0 + j0.0$$

$$9(3) = \pi(2) - \pi(6) = (1.0 + j0.0) + (5.0 + j0.0) = 6.0 + j0.0$$

$$9(4) = \pi(1) - \pi(5) = (1.0 + j0.0) + (5.0 + j0.0) = -4.0 + j0.0$$

$$9(5) = \pi(3) + \pi(3) = (3.0 + j0.0) + (7.0 + j0.0) = 10.0 + j0.0$$

$$9(6) = \pi(3) + \pi(3) = (3.0 + j0.0) + (7.0 + j0.0) = -4.0 + j0.0$$

$$9(7) = \pi(3) - \pi(7) = (3.0 + j0.0) - (7.0 + j0.0) = -4.0 + j0.0$$

$$\frac{n(0)}{1}$$
 in $0 - \frac{1}{2}$ $\frac{1}{2}$ in $0 - \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

Stage 2 Calculations:

$$h(0) = g(0) + g(2)$$

$$h(1) = g(1) - jg(3)$$

$$h(2) = g(0) - g(3)$$

$$h(3) = g(1) + jg(3)$$

$$h(4) = g(4) + g(6)$$

$$h(6) = g(5) - jg(7)$$

$$h(7) = g(5) + jg(7)$$

$$h(1) = g(5) + jg(7)$$

$$h(1) = g(5) + jg(7)$$

$$h(1) = g(1) - jg(3) = g(1) - g'(3)$$

$$h(2) = j(3) - g(2) - imag$$

$$= jg(2) - g(2) - imag$$

$$g'(2) = -g(2) - imag + jg(3) - g(2)$$

$$= g'(2) - g(2) - imag = g'(3) - g(2)$$

$$M(i) = (-4+j0.0) - j(-4+j0.0)$$

$$= -4+j0.0 + j4 + 0.0$$

$$= -4+j4$$

$$h(\lambda) = q(0) - q(\lambda) = (4.0 + j0.0) - (8.0 + j0.0) = -4.0 + j0.0$$

$$h(3) = g(1) + jg(3) = g(1) + g'(3)$$

$$g'(3) = j(g(3) - \text{seal} + jg(3) - imag)$$

$$= -g(3) - imag + j g(3) - real$$

$$g'(3) - 9lad = -9(3) - imag$$

$$g'(3) - imag = 9(3) - 9lad$$

$$M3) = \frac{-4.0 + j0.0 + j(-4.0 + j0.0)}{-4.0 + j0.0 - j4.0 - 0.0}$$

$$h(H) = g(H) + g(G)$$

= $(6+j0.0) + (10+j0.0) = (6-0.0) = (6-0.0)$

h(5)=