

Sa Op. JIP 7+1=8 8=0+8 7 8=0+8 6+(-j)2j = 8 8 +0(w)=8 1-1-0 8-0-8 8+0(w) 08 6 -(-j)(&j)=4 4+(-0.707-10.709) j-(-j)-2j -0 (-0.808-10.808) (0.7074 10.701) -0.7071jo.707 3=0-3 + (0.707-j0.707) (-1.414+j 1.414) 8-0(M)=8 (-0.7071j0.701) 0.707-j0-707 + (-j)(1.414+j1.414) -(0.707-)0·707) --1.414+11.414 0.707+10.707 (0.707+10.707) 8-0(w2)=8 + (-0.707- 0-707=0 (-1.414+)1.414) 0.707+ 50.707 4-(0.707-10.707) -0.707-jo.707 -(-))(1.414+)1.414) -(-0.707-j0.70T) (-2.8287)282 =1.4141 / 1.414 =-2.828+12.828

Fradthe IDFT of the sequence X(x)= \$4,1,5- ja.414,0,1-jo:414,0,1410, 14ja.4144 Using DIF algorithm

SRM

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	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	$\frac{2 + j 2}{2 + j 2}$ $\frac{4}{w_8}$ $\frac{2 + j 2}{w_8}$ $\frac{7}{w_8}$ $\frac{8 \times 4(4)}{w_8}$ $\frac{2 - j 2}{w_8}$ $\frac{7}{w_8}$ $\frac{8 \times 4(4)}{w_8}$ $\frac{1}{w_8}$ $\frac{1}{$	
	24j2 We 2+j2 We 2+j2 We 2+j2 We 2-j2 x(n) > 5 2(0), x =>51, 1,	
Vivo (1-45,414 1-45,414 1-40,614 1-10,6	SRM