STQQSSD

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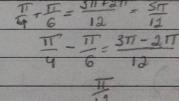
PROVA-2 - SSTD

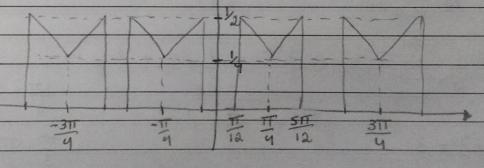
$$W[n] = x[n] \cdot \frac{1}{9} \left(e^{i\frac{3\pi}{9}n} + e^{i\frac{\pi}{9}n} + e^{i\frac{3\pi}{9}n} + e^{i\frac{3\pi}{9}n} \right)$$

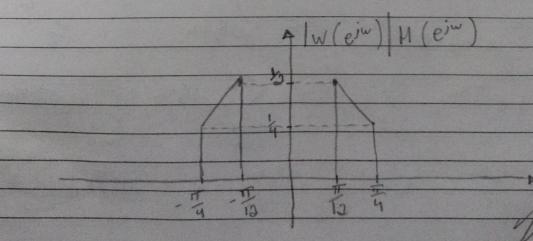
4

$$W(e^{jw}) = \frac{1}{4} \left(X(e^{j(w-\frac{iq}{4})}) + X(e^{j(w-\frac{iq}{4})})$$

T | W (eiw)







STQQSSD 2) a) N = 6 Not $X[K] = \sum_{i=1}^{N} X[K] = \sum_{i=$ K]=4+5ej等.1K+4ej等.2K+2ej等.3K+e-j等.4K+2ej等.5K - T & W S Ty como W = T . K, somente um K=Op filtro X[0]=4+5+4+2+1+2=18N x[K]=0, K≠0. $x[n] = \frac{1}{6} \sum_{k=0}^{\infty} \tilde{x}[k] e^{j\frac{\pi}{3}kn} = \frac{1}{6} \cdot 18 = 3$ x[K] = \(\text{X[N]} \cdot \equiv \(\equiv \) \(\equiv X[K] = \$\frac{1}{3} e^{-j\frac{1}{3}} Kn - \frac{5}{3} e^{-j\frac{1}{3}} Kn = \frac{5}{3} e^{-j\frac{1}{3}} Kn - \frac{5}{3} e^{-j\frac{1}{3}} Kn + 5) 内=3 Seigk = ejigk = 3(1-eigk) Seigkn $x(K) = 3 - 3e^{-j\frac{\pi}{3}K}$ 1 = 3 $1 - e^{-j\frac{\pi}{3}K}$ $e^{j\frac{\pi}{6}K}$ $e^{j\frac{\pi}{6}K}$

四四回回写写回

