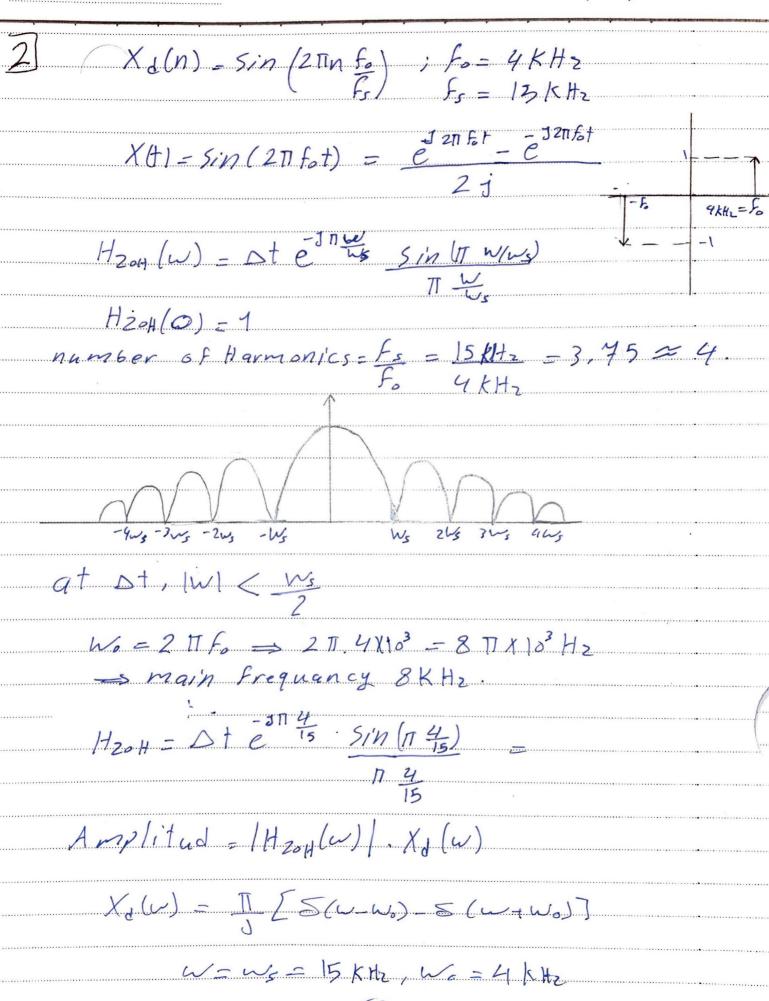


/ /

L DTFT[H(w) N(w) < DTF[[H(w) X5(w)] 20
The Nyquist here will be.
$W_5 > 2 W  ; W = 13 \pi \times 10^3$ Sampling here well be $2 \times 13 \pi \times 10^3 = 26 \pi \times 18^3$ rad
$H(\omega) N(\omega) = 1$ ;
$N(\omega) = 0.1, H(\omega) = \frac{1}{\sqrt{1+(\frac{\omega}{W_0})^2}}$
$0.1. \qquad = 1 \implies \sqrt{1+1} = 2$ $\sqrt{1+1} = 2$ $(ws)^2 = 2$
$1 + \left(\frac{w}{w_0}\right)^2 = 4 \Rightarrow \left(\frac{w}{w_0}\right) = \sqrt{3}$
$W = \sqrt{3} \cdot w_0$ $W = 26 \pi x lo^3 rad/s$
New Ws will be.
$W_s 7 26\pi x lo^3 - (-13\pi x lo^{-3})$
W57/3971103 rad/s

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La X(w) = I[5(11) - 8(12)]
+ W - 2 Ws = 30 KHz , W - 9KHz.
$X(\omega) = I \left[ S(30-4) - S(30+4) \right]$
our harmonics at 11kHz, 19KHz, 26KHz, 34KHz.
//(w)/=/Hz=H(w)).X(w)
(y (w)   = 2.7868 main Frequency.
1st harmonic /4(w)   w= w= 00 = 1.0134.
2nd: harmonic /Ylw)   w= ws+w= 0.5867
3rd harmonic (Y(w)) w=2w,-w= = 0.4287
4Th harmonic /4(w) 1w=2ws+w0 = 0.3279.
,

(4)