24/6/20 Eugel this Yuval S. Hatz id 20 4025258 1)(a) X(t)= cos (2xat) + cos (2716.t) a,620 al falt by the frag pairs + given pair of Cos (a)- cos(b) XHI = 105 (249+246+) + cos(270+246+)] X(E) = [[COS (2xt(a-1)) + (OS (2xt(a+1))] COS(x) = COS(-x) (-> +5, =+100) for each fs, freq pair cos(27 ft)

\[\begin{align*} \left(\text{W}) = \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha - 6)) + \delta (\frac{1}{2} + (\alpha - 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} + (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} + (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} + (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left[\delta (\frac{1}{2} - (\alpha + 6)) + \delta (\frac{1}{2} - (\alpha + 6)) \right] + \frac{1}{2} \left alven a=10,6=110 K(W)= = = [[(f+100)+ (f+100)]+ = [[(f-120)+ (f+120)] (b) See file assogexolipng, and the and the (c) minimal sampling rate to avoid aliasing is 2xf max by nyqvist Florm -> twice of max freq. James below minimal sampling rate -> Aliasing? Ve've missing paaks! -> good Sample! representitive a 2) a) see file. Power=20 loy10(A), on top of figs!! with god res b) the 2 highest are: 1- mas 3927