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	SEMESTER: 5th
	SUBJECT: DSP
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(2)(1)

U= 4 , T= 4

x(t) = 3 sin(40071+0) + 2 sin(\$ 200 Te+0)

f=2(fmax) TI t = 2(200) TI t

fman = 200Hz fs = 400Hz

Nyquist theorem

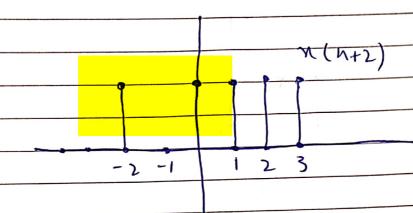
P, > 2 fmen

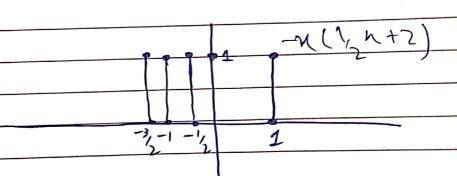
400 <u>2</u> 2(200)

so it satisfies Nyquist theorem.

(Question 3)

(i) (a) -u(\frac{1}{2}n+2)





 $\frac{b}{2n(-2h+3)}$

$$\frac{-2h+3=2}{-2h=2-3}$$

$$\frac{(h-1/2)}{2}$$

$$-2h+3=3$$

 $-2h=0$
 $n=0$