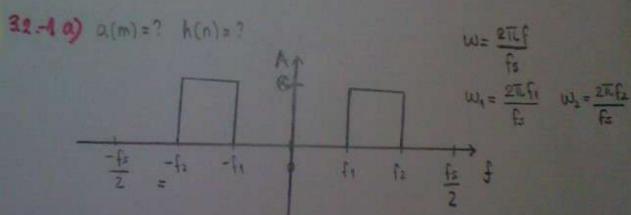
## PRIPROMA-2.LAB-OBRINE 3.1-2 a)

## EMILLIADAMIC COSSUS AKS

N=red filtra	Eirina al.	gureuje t.	Sirina Implanung
PRAYOKUT NI	GIT NAA	13,3	0,92 TC/ N/2
BARRETTOV	BIT.	25	
HANNOV	N N	31,5	3,11 1/2
HAMMINGOV	RTC N	4217	3,327/2
BUACICHA NOV	42TC N	68,1	5/36 TU/ N/2



posons propusal filter king propusion problems od fi do fz  $a_{m} = \frac{1}{\pi} \left\{ \begin{array}{c} (u_{1}(w))\cos(wm) dw + \int_{w_{1}}^{w_{2}} (u_{2}(w))\cos(wm) dw \\ -u_{2} & w_{1} & w_{2} \\ -u_{2} & w_{1} & w_{2} \\ -u_{3} & w_{1} & w_{2} \\ \end{array} \right\}$   $= \frac{1}{\pi} \cdot C \left\{ \begin{array}{c} \frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) - \frac{1}{2} \cos(wm) \\ \frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) - \frac{1}{2} \cos(wm) \\ -\frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) + \frac{1}{2} \sin(wm) - \frac{1}{2} \cos(wm) \\ \frac{1}{2} \cos(wm) + \frac{1}{2} \sin(wm) - \frac{1}{2} \cos(wm) \\ -\frac{1}{2} \cos(wm) - \frac{1}{2} \cos(wm) - \frac{1}{2} \cos(wm) \\ -\frac{1}{2} \cos(wm) - \frac{1}{2} \cos(wm) - \frac{1}{2} \cos(wm) \\ -\frac{1}{2} \cos(wm) - \frac{1}{2} \cos(wm) -$ 

$$h(n) = \begin{cases} \frac{1}{\pi} \frac{C}{\frac{N}{2} - n} & \sin(\omega_{2} \cdot (\frac{N}{2} - n)) - \sin(\omega_{1} \cdot (\frac{N}{2} - n)) \\ \frac{C}{\pi} (\omega_{2} - \omega_{A}) & n = \frac{N}{2} \\ \frac{1}{\pi} \frac{C}{n - \frac{N}{2}} & \sin(\omega_{2} \cdot (n - \frac{N}{2})) - \sin(\omega_{A} (n - \frac{N}{2})) \\ \frac{1}{2\pi} \int_{-\infty}^{\infty} C d\omega + \int_{-\infty}^{\infty} C d\omega \\ = \frac{1}{2\pi} \cdot C \left[ -\omega_{A} + \omega_{2} \right] + \left( \omega_{2} - \omega_{A} \right) = \frac{C}{\pi} \cdot \left( \omega_{2} - \omega_{A} \right) \\ -2\omega_{A} + 2\omega_{2} \end{cases}$$