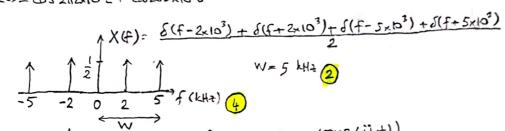
Analog Haberlesme (Ara Sinar 2 Gassuleri) CRN: 10813

1 x(t)= cos 2112x103+ cos215x103+

a)



b) x c (t) = Ac x(t) corwet - Ac x(t) sinut (TYB ( ijk))

A = 2 V, f = 40 kH7 =)

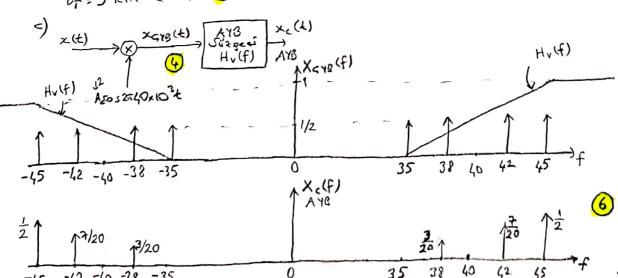
x (+) > (cos 20 2x10 2+ cos 255x10 2+)cos 25 40x10 3+ - (sin 252x10 2+ 12 25x10 2+ 12 25x10 2+ =1 (cos 25 42x103 + cos 2538x103 + +cx 2545x103 + +cx 255x103 + -cos 255x103 + +cx 2542x103 + +cx 2542x103 + +cx 2542x103 + +cx 2545x103 + +c

= < or 25 (2x103+ + coc 2545x103+ 6) TYB x(H)

Singer TyB(U1+) Veya

Acros 2560x1036

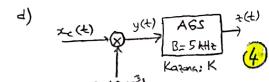
 $P_{\tau} = \frac{1^2}{2} + \frac{1^2}{2} = 1$   $\vee$   $\vee$   $\vee$ BT = 5 KH2 (=W) 2



14 17 17

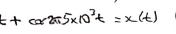
Davon)
$$\Rightarrow \times_{\ell}(+) = \frac{3}{3} \cos 2\pi 38 \times 10^{3} + \frac{7}{10} \cos 2\pi 42 \times 10^{3} + \cos 2\pi 45 \times 10^{3} + \frac{6}{10}$$

$$P_7 = \left(\frac{3}{10}\right)^2 \cdot \frac{1}{2} + \left(\frac{7}{10}\right)^2 \cdot \frac{1}{2} + \frac{1^2}{2} = 0.79 \text{ W}$$



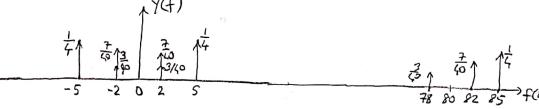
/ TYB (Ust) ight tamen biberlinde demodilarpour görterlumis

K=2 Kazonile AGS'ten sonra,



V AYB ign felions böljerhole denodularyonn gösterkimis

$$y(t) = x_{c}(t) = x_$$



K= 2 hazangli AGS'ten soma,

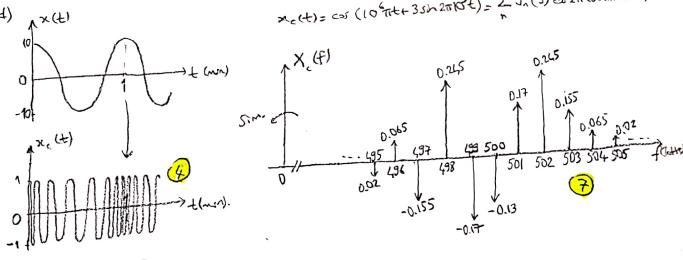
$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$

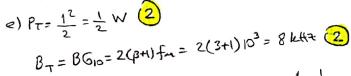
② 
$$x_{c}(t) = \cos (10^{6}\pi t + 3\sin 2\pi 10^{3}t)$$

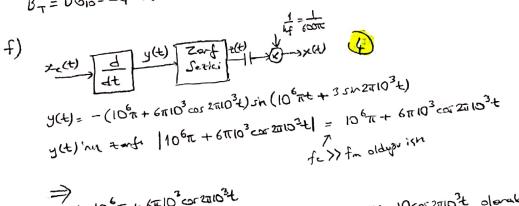
a)  $f_{c} = \frac{10^{2}}{2} = 500 \text{ kHz}$ 
 $x(t) = \arcsin t \Rightarrow x_{c}(t) = A_{c} \cot (\cot t + \beta \sin t + 1) \Rightarrow \beta = \frac{3}{2}$ 
 $f_{c} = \frac{10^{2}}{2} = 500 \text{ kHz}$ 
 $f_{c} = 4 \text{ kHz}$ 
 $f_{c} = 3 \times 10^{3} = 3 \text{ kHz}$ 

2)

b)  $\Delta f = \frac{k_{f} \alpha}{2\pi} = \frac{600\pi \alpha}{2\pi} = 3 \times 10^{3} \Rightarrow \alpha = 10 \text{ V} \Rightarrow x(t) = 10 \cos 2\pi 10^{3}t$ 
 $W = f_{c} = 1 \text{ kHz}$ 
 $f_{c} = 1 \text{$ 







Kondonator e zagiflatina islementary source xilt) = 10cos 2010 t olarak bullinus => = 106 T + 6 T 10 cor 271034 4