

$$\begin{array}{c}
\mathcal{D}_{a)} \mathcal{Y}(t) = -\int_{c}^{c+\tau} \chi(\tau) d\tau \\
\mathcal{Y}(t) = -\int_{c}^{c+\tau} \mathcal{F}(\tau) d\tau
\end{array}$$

T) o mondo in ingreno
$$S(T)$$

h(t)= $\begin{cases} 0 & \text{per} \\ t & \text{t+T} \end{cases}$

$$y(t) = -\int_{t}^{t} f(\tau) d\tau$$

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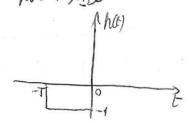
$$= \int_{t}^{t} \int_{t+1}^{t} f(\tau) d\tau$$



Segnole MI) non coursele perché h(t) \$0 per t<0 =) Sistema non coursele Stabilità: Shlt) dt = S+1 dt = [t]= 10+# = +T => Atalile B.I.B.O.

per T #100

b) x(t)=28(t-T) - 8(t-2T)



Jacendo entrare una 8, il sistema porta in usuto h(t) traslata della 8 e

emplificate a Quindi:

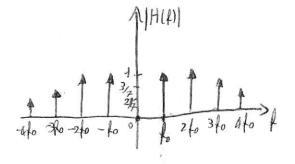
$$y(t) = -2 \prod \left(t - \frac{7}{2} \right) + \prod \left(t - \frac{3}{2} \right)$$
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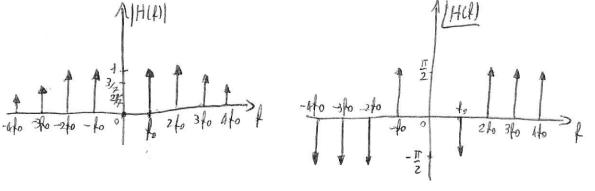
$$(2) a) X_{k} = \frac{jk}{k^{2}-2}$$

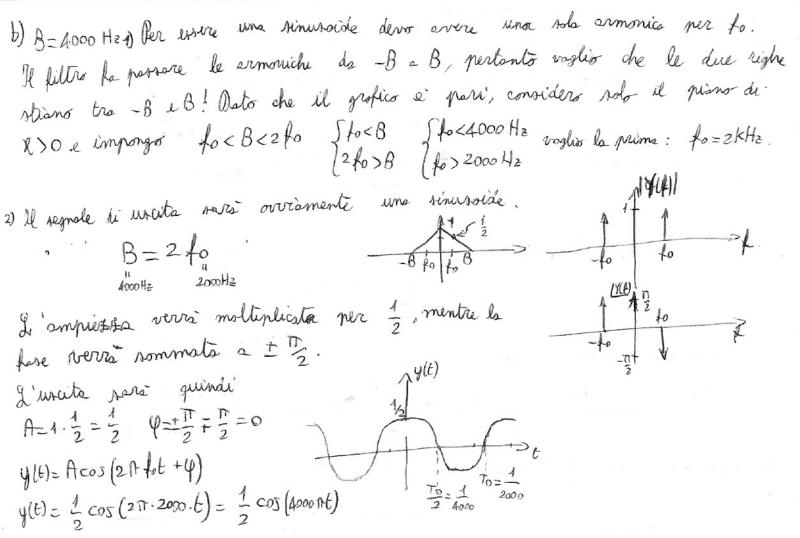
$$X_0 = 0$$
 $X_1 = -j$

$$X_{1}=-j$$
 $X_{2}=j$ $X_{3}=\frac{3}{7}j$ $X_{4}=\frac{2}{7}j$

$$X_{-1} = j$$
 $X_{-2} = -j$ $X_{-3} = -\frac{3}{7}j$ $X_{-4} = -\frac{2}{7}j$







Davide Valeriani

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