ES 1 SICALCOUINO ARZA EVALOR MEDIO DI

$$
s(t)=1(t)
$$



$$
\begin{aligned}
& \text { Area }(s)=\lim _{T \rightarrow \infty} \int_{-T}^{T} \int_{0}^{T} s(t)^{T} d t
\end{aligned}=\lim _{T \rightarrow \infty} \int_{0}^{T} 1 d t
$$

ES2 AREA EVALOR MEDIO DI $s(t)=e^{-\alpha|t|}, \alpha>0$

$$
s(t)= \begin{cases}e^{-\alpha t} & t>0 \\ e^{\alpha t} & t<0\end{cases}
$$



$$
\begin{aligned}
& =\lim _{\tau \rightarrow \infty} \frac{2}{\alpha}\left(1-e^{-\alpha T}\right)=\frac{2}{\alpha} \\
m_{s} & =\lim _{T \rightarrow \infty} \frac{1}{\alpha^{T}} \int_{-\tau}^{T} \operatorname{str} d t \frac{\alpha}{\alpha}\left(1-e^{-\alpha \tau}\right)=0
\end{aligned}
$$

ES 3 ENERGA $\&$ POTENEA DI $\mathrm{s}(H=1(t)$

$$
\begin{array}{r}
\xrightarrow{\sim} \xrightarrow{4(t)} s(t)=1(t)= \begin{cases}1 & t>0 \\
\frac{1 / 2}{} & t<0 \\
0 & t<0\end{cases} \\
|s(t)|^{2}=\left\{\begin{array}{ll}
1 & t>0 \\
1 / 4 & 1<0 \\
0 & t<0
\end{array}=l(t)\right.
\end{array}
$$

$$
\begin{aligned}
& E_{s}=\infty \\
& P_{s}=1 / 2
\end{aligned}
$$

ES4 ENERGA EPOTARA DI $S(H)=e^{-\alpha|t|}, \alpha D D$


$$
\begin{array}{ll}
A_{S}=\frac{2}{\alpha} & E_{S}=\frac{2}{B}=\frac{1}{\alpha} \\
m_{S}=0 & P_{S}=0
\end{array}
$$

