Es2


$$
x(n)=\delta(n)-a \delta(n-1)
$$

$$
\begin{aligned}
& x(n)=\delta(n)-a \delta(n-1) \\
& h_{1}(n)=\sin (8 n) \text { NON B(BO SCASILE } \sum_{n}|\sin (8 n)|=\infty \\
& n \quad|a|<1
\end{aligned}
$$

$$
h_{2}(n)=a^{n} 1_{0}(n)_{B \mid B O S T A B) L E}
$$

1）BIBO stabile？NON BIBO STABILE
2）$y(n)=$ ？
xGdsa prouate a chacolare

$$
n(n)=h_{1} * h_{2}(n)
$$

$$
\begin{aligned}
y(n) & =x * h_{1} * h_{2}(n) \\
& =\left(x * h_{2}\right) * h_{1}(n)
\end{aligned}
$$

$$
x * h_{2}(n)=h_{2}(n)-a h_{2}(n-1)
$$

$$
=a^{n} l_{0}(n)-\underbrace{a \cdot a^{n-1}}_{a^{n}} 1_{0}\left(n_{-1}\right)
$$

$$
=a^{n} \cdot\left(1_{0}(n)-1_{0}(n-1)\right)=a^{0} \delta(n)
$$

$$
\begin{aligned}
& 10(n) \\
& \rho ⿻ 上 丨 p
\end{aligned}=\delta(n)
$$



