## منين سرب سين

## · تابع نير. يا خمار فعرب ميم مار ٢٦١ ه سند برا مرستم على و يابيار بون را برس ليند .

a) 
$$h_{\text{Enj}}: \left(\frac{1}{5}\right)^n u_{\text{Enj}} = \int_{0}^{\infty} u_{\text{Enj}} du_{\text{Enj}} du_{\text{Enj}} = \int_{0}^{\infty} u_{\text{Enj}} du_{\text{Enj}} du_{\text{Enj}} du_{\text{Enj}} du_{\text{Enj}} du_{\text{Enj}} = \int_{0}^{\infty} \frac{\left(\frac{1}{5}\right)^n - \left(\frac{1}{5}\right)^n - \left(\frac{1}{5}\right)^{n+1}}{1 - \frac{1}{5}} du_{\text{Enj}} du_{\text{En$$

b) 
$$h_{\text{Enj}} = \left(\frac{1}{2}\right)^n u_{\text{Enj}} = \left(\frac{1}{2}\right)^n u_{\text{Enj}} = \left(\frac{1}{2}\right)^n u_{\text{Enj}} = \frac{1}{2} = \infty$$

C) hend = 
$$n(\frac{1}{3})^n u \in n-1$$
  $\sum_{n=1}^{\infty} \frac{1}{n} = 0$  for  $n < 0$ 

d) henj = 
$$5^n u [3-n]$$
  $\longrightarrow$  henj  $\pm 0$  for  $n < 0$ 
 $\square$  )  $| u |_{\infty} \longrightarrow \sum_{n=-\infty}^{\infty} 5^n = \frac{5^{-\infty} \cdot 5^{+1}}{1-5} = -156.25 < \infty$ 

e) hen 
$$J = e^{2n}$$
 $II$ ) Civil  $\longrightarrow hen J \neq 0$  for  $n < 0$ 
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$$f) h(t) = e \quad u(t-2)$$

$$\boxed{1} \quad \text{ind} \quad \Rightarrow \quad h(t) = 0 \quad \text{for} \quad t < 0$$

$$\boxed{1} \quad \text{ind} \quad \Rightarrow \quad \int_{2}^{\infty} e^{-4t} dt = -\frac{1}{4} e^{-4t} \Big|_{2}^{\infty} = -\frac{1}{4} \left( e^{-4(2)} \right) < \infty$$

h) heti=te u(t) 
$$= \frac{1}{1}$$
 [I) [I]  $= \frac{50}{1}$  hoti= o for t<0

 $\varphi_{xy} = \sum_{m=-x}^{+x} x [m+n]y[m], \quad \varphi_{xx} [n] = \sum_{m=-x}^{+x} x [m+n] \times [m]$   $\varphi_{xy} = \sum_{m=-x}^{+x} x [m+n]y[m], \quad \varphi_{xx} [n] = \sum_{m=-x}^{+x} x [m+n] \times [m]$   $\varphi_{xy} = \sum_{m=-x}^{+x} x [m+n]y[m], \quad \varphi_{xx} [n] = \sum_{m=-x}^{+x} x [m] \times [m]$   $\varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n], \quad \varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n]$   $\varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n], \quad \varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n]$   $\varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n], \quad \varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n]$   $\varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n], \quad \varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n]$   $\varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n], \quad \varphi_{x,x} [n] = \sum_{n=-x}^{+x} x [n]$