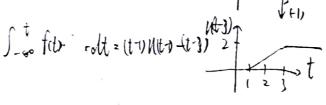
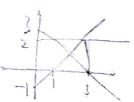
1. (1) 
$$\int_{-\infty}^{\infty} \delta(t) e^{-t} dt = \int_{-\infty}^{\infty} \delta(t) = 1$$

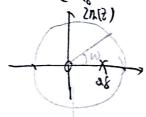
(2)  $\int_{-\infty}^{\infty} \delta(t) e^{-t} dt = \int_{-\infty}^{\infty} \delta(t) = 1$ 

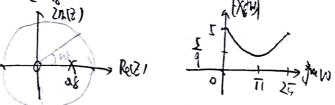
(3)  $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_$ 





$$\chi(z) = \frac{z}{z - a_s} \quad \text{2)} \quad \text{2} \quad \text{2}$$





4. 
$$A = \begin{bmatrix} 2 & -1 \\ a & -p \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & -1 \\ a & -p \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a & -2 \end{bmatrix}$$

$$A = \begin{bmatrix} -2 & -1 \\ a$$

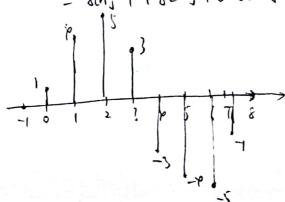
労母勢权を全在 S 左半平面, (S-2)(stp) t3a = S2+25+3a-8

是更,130-8≥。 1△≥。(这个在确定,我是觉得要有利互肋)

| 
$$\frac{1}{12} = \frac{1}{12} = \frac{1}{1$$

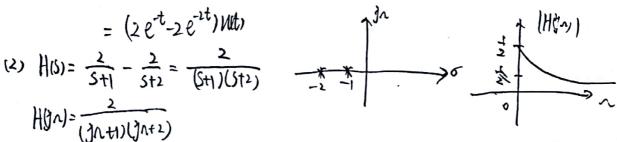
) <del>X</del> (

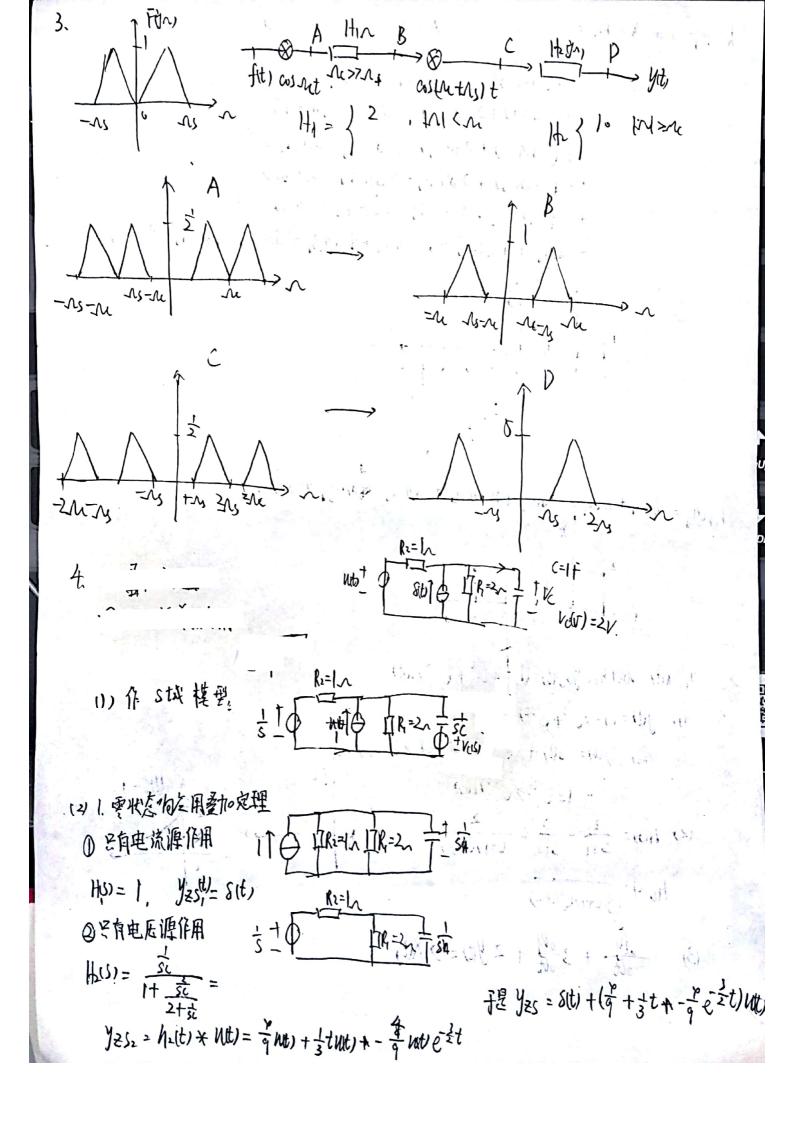
$$= s(n) + 4 s(n-1) + 5 s(n-2) + 3 s(n-2) +$$



 $h_b[\bar{n}] = h_b[\bar{n}] + h_b[\bar{n}] = 2S[\bar{n}] + \gamma S[\bar{n}-1] + S[\bar{n}-2] + S[\bar{n}-2] + S[\bar{n}-4]$ 

(2) 
$$H(5) = \frac{2}{5+1} - \frac{2}{5+2} = \frac{2}{(5+1)(5+2)}$$



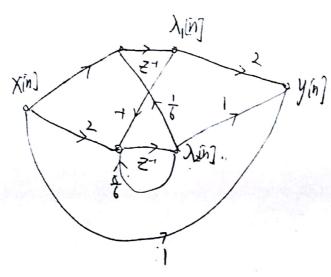


$$T = \frac{1}{\log C} = \frac{2}{3}$$

5. (1) 
$$A = \begin{bmatrix} 0 & \frac{1}{6} \\ -1 & \frac{5}{7} \end{bmatrix}$$
  $B = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$   $C = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$   $D = 1$ 

けられっ サインと

Ryn



(2) 
$$A(z) = C(z^{2}-A)^{T}B + D$$

$$= \begin{bmatrix} 2 & 1 \end{bmatrix} \begin{bmatrix} z & -\frac{1}{6} \\ 1 & z - \frac{6}{6} \end{bmatrix} \begin{bmatrix} 1 \\ 2 \end{bmatrix} + 1$$

$$= \begin{bmatrix} 2 & 1 \end{bmatrix} \frac{1}{z(z^{2}-\frac{1}{6})+\frac{1}{6}} \cdot \begin{bmatrix} \frac{1}{2}-\frac{6}{6} & \frac{1}{6} \end{bmatrix} \begin{bmatrix} 1 \\ 2 \end{bmatrix} + 1$$

$$= \frac{(z^{2}-\frac{1}{2})(z^{2}-\frac{1}{3})}{(z^{2}-\frac{1}{2})(z^{2}-\frac{1}{3})} + 1$$

$$= \frac{4(z^{2}-\frac{1}{2})}{(z^{2}-\frac{1}{2})(z^{2}-\frac{1}{3})} + 1$$

$$= \frac{2+\frac{11}{3}}{z^{2}-\frac{1}{3}} \cdot \frac{1}{12} \cdot \frac{1}{3} \Rightarrow kez_{1}$$

低通 滤烘料

(4) 
$$h(n) = \frac{4}{2-\frac{1}{3}} + 1$$
  
 $h(n) = \delta(n) + (\frac{1}{3})^{n+1} h(n-1)$ 

联为 fifte JaifOn),则由傅里叶变格包以 fit) e-jnt ett = Fijn)

对fat)当 a>olth, 生 u= at, t= a

$$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(u) e^{-\frac{1}{2} \int_{0}^{\infty} f(u) e^{-\frac{1}{2} \int_{0}^{$$

当的人。我们就,长面

$$\int_{0}^{\infty} f(\omega t) e^{-\frac{t}{2} n t} dt = \int_{0}^{\infty} f(w) e^{-\frac{t}{2} n t} du = \int_{0}^{\infty} f(w) e^{-\frac{t}{2} n t} du$$

$$= -\frac{1}{n} \int_{-\infty}^{\infty} f(w) e^{-\frac{t}{2} n t} du$$

$$= -\frac{1}{n} \int_{-\infty}^{\infty} f(w) e^{-\frac{t}{2} n t} du$$

$$= -\frac{1}{n} \int_{-\infty}^{\infty} f(w) e^{-\frac{t}{2} n t} du$$

于是,对全体a, 并feto]: 向于了合)