7(x(t) u(t))= \$+2 32+4

养不多,正弦 稳定要 好肚

$$(D-1-4)$$
 (1) $y(t) = U_{C}(t)$ xt_{D} $y(t)$ $y(t)$

版記是 如
$$S_1$$
是重点 $X(S_1)=0$ $X^*(S_1^*)=0 \cdot = X(S_1^*)$ 因为者先 0 是个采鱼,共轭是其本身 · S_1 老板点 · $X(S_1)=00=X_0^*S_1^*=0$ の S_1 是板点 · X_1 是板点 · X_2 是板点 · X_1 是人。 ·

の 对实信号· X(t) = X*(t).

= 2. (str-st2) ROC Rels) >-1

$$Y(s) (s^{2} + 3s + 2) + 1+2s+3 = 0$$

$$Y(s) = \frac{-2}{s+1} \cdot y_{zi}(t) = 0$$

$$Y(t) = -2e^{-t}u(t) + (e^{-t} + 2e^{-2t} + e^{-3t}) u(t)$$

$$= (-e^{-t} - 2e^{-2t} + Be^{-t}) u(t)$$

$$y_{zi}(t) = Ae^{-2t} + Be^{-t} \cdot y_{zi}(t) = y_{zi}(t)$$

$$= \frac{-3}{5+2} + \frac{+4}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \cdot y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \cdot y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \cdot y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+1} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+2} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+2} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+2} \Rightarrow y_{zi}(t) = (3e^{-2t} + 4e^{-2t}) u(t)$$

$$y'(t) = \frac{-3}{5+2} + \frac{-3t}{5+2} \Rightarrow y_{zi}(t) = \frac{-3t}{5+2} \Rightarrow y_{z$$

$$= -y(0-) + S \int_{0}^{+\infty} y + e^{-st} dt = y(0-) + SY(s)$$

$$= \int_{0}^{+\infty} e^{-st} y''(t) dt = \int_{0}^{+\infty} e^{-st} dy'(t)$$

$$= e^{-st} y'(t) \Big|_{0}^{+\infty} + S \int_{0}^{+\infty} e^{-st} dy(t)$$

$$= -y'(0-) + S \Big(y(t) e^{-st} \Big|_{0}^{+\infty} + S \int_{0}^{+\infty} e^{-st} y(t) dt \Big)$$

K(t) + IF T YIY (1) X(t)= tc(t)-R+ UL(t) $H_L(t) = LC \frac{d^2g(t)}{dt^2} + g(t)$ $7c(t) = C \frac{d \mathbf{y} t}{dt}$

 $H(s) = \frac{Y(s)}{X(s)} = \frac{1}{1 + CRS + LCS^2}$

S2+ S+1=0 S= -1+13i

极点图 因果系统 ROC: Ress 52 1+ jw+ (-w2y. H(s)= 5245+1=(5+3)+ 1 (2) 当W=±皇时 |H(jw)解於 是常通的. 临通的 137. R=10-2/2 H(s)= 10052+ S+100 (H(Jw) 还是带通的 @

决定对10-1-7重新梳理 H(S)= S+S+1 得到之后,为了从雪极点图得到 帽领特性国,不妨用 HIS)什么寻找极值 Re(5) > - 5 H(S)= (3+3)+3 再代A S=jw. $H(j\omega) = \frac{1}{(j\omega + \frac{1}{2})^2 + \frac{3}{2}}$ $= \frac{1}{-W^2 + 1 + jW}$ 開 W= ± 年 日 | H(jw) | max. |H(j+至)|= 元 其 |H(gw)|= 1/1/2 可以定性 知道幅频,但不可以定量,定量老老实实摘必数 Hgw)= -W=1+001jw 团队先定性 发现 W>の |HIgw|>0 W→0 (H(jw)) -> 1

 $|H(j\omega)| \to |H(j\omega)| \to |H(j$

10-2-2 $R_1 = 300$ $R_2 = 100$ R_1 R_2 R_3 R_4 R_4 R_5 R_5 R_6 R_6 R