

ZO16P2Q5(I) ZTII(RES QIWE) W=I $f(t) = \frac{-i}{2\pi} 2\pi i \bar{e}^t = \bar{e}^t + okt > 0$ $f(t) = 0 \quad \text{tor } t < 0 \quad \sqrt{vont20} \quad \text{de } d\omega = 0$ $(0) \quad y(t) = \frac{1}{2\pi i} \int_{-\infty}^{\infty} y(\omega) e^{i\omega t} dt = \sum_{t=0}^{\infty} \frac{1}{2\pi i} \int_{-\infty}^{\infty} \frac{1}{2\pi i} e^{-i\omega t} d\omega$ $= \sum_{t=0}^{\infty} \frac{1}{2\pi i} \int_{-\infty}^{\infty} \frac{1}{2\pi i} e^{-i\omega t} d\omega$ $= \sum_{t=0}^{\infty} \frac{1}{2\pi i} \int_{-\infty}^{\infty} \frac{1}{2\pi i} e^{-i\omega t} d\omega$ $\zeta = \frac{\omega \frac{i}{\omega - i}}{\omega^{2}(\omega - i) + 4(\omega - i)} = \frac{\omega i}{\omega^{2}(\omega - i)^{2} + 4(\omega - i)^{2}} = \frac{\omega i}{(\omega - i)^{2}(\omega^{2} + 4)}$ ⇒ SMPLE POLES AT: W= +7 i $= \frac{\omega i}{(\omega - i)^2(\omega - 2i)(\omega + 2i)} \Rightarrow \frac{\zeta(\omega)}{\int_{-\infty}^{\infty} d\omega} = \frac{\omega i}{\int_{-\infty}^{\infty} d\omega} = \frac{\omega i}{\int_{-\infty}$ KCUHP dw = 0 BECAUSE Perint GOES TO RXD] SEMICITICLE O FASTER IN THE UPPER MALF BY CAUCUT'S PARTOF THEOTEM MARCIELLI ZO THAN THE CUMP M ARCIENGTH OF THE STANCIRCIE Soles 1000 ks R-300.

Perut du= print du = 271 1) RES (Peint)

Poles

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