8 Let L=0

with
$$h(\omega) = \mathbb{Z}_2 + \mathbb{Z}_3$$
 $W_{LC}^{-2} = LC$
 $T = RC$
 $H^2 = 1 - \left(\frac{W}{W_{LC}}\right)$
 $H(\omega) = \frac{H}{H^4 + (WT)^2} - j \frac{1}{H^2 + (WT)^2}$
 $\mathbb{Z}_T = R + 0i$
 $\mathbb{Z}_C = 0 + i / j \omega C$
 $\mathbb{Z}_L = 0 + j \omega L$

Since $L = 0$ then

 $W_{LC} = 0$
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So we can replace all H^2/H^4 with $1 = in$.

The equation

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Leguing us with $h(\omega) = \frac{1}{(\omega t)^2} - j \left(\frac{\omega t}{1 + (\omega t)^2}\right)$ remore fractions $h(\omega) = 1 + (\omega z)^2 - j (\omega z)^3$ (real) (imaginary) We know by the equation the point will be in the positive real axis and the negative imaginary axis therefor lying somewhere in audient y Real (I+(ws), (ws)))