$C := 450 \cdot 10^{-6}\ F$

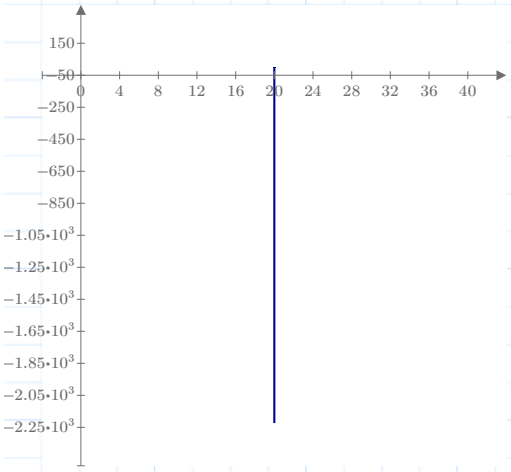
$L := 0.5\ H$

$R := 20\ \Omega$

$\omega := 0{,}1\ s^{-1} .. 10000\ s^{-1}$

$re(\omega) := R$

$im(\omega) := \frac{-1}{\omega \cdot C}$

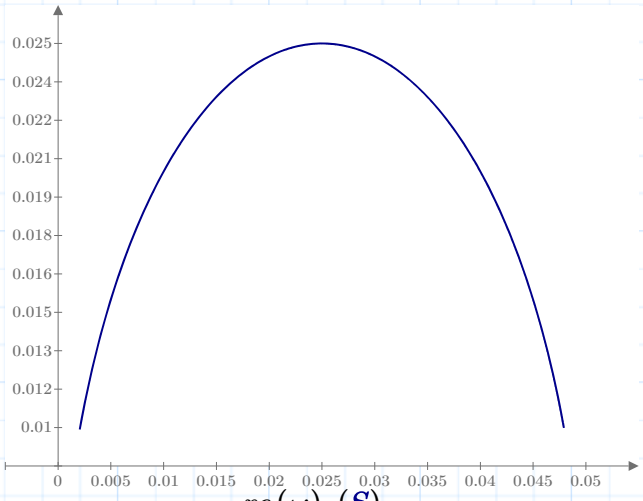


$im(\omega)\ \ (\Omega)$

$re(\omega)\ \ (\Omega)$

$re(\omega) := \frac{R}{R^2 + \left(\frac{1}{\omega \cdot C}\right)^2}$

$im(\omega) := \frac{\frac{1}{\omega \cdot C}}{R^2 + \left(\frac{1}{\omega \cdot C}\right)^2}$

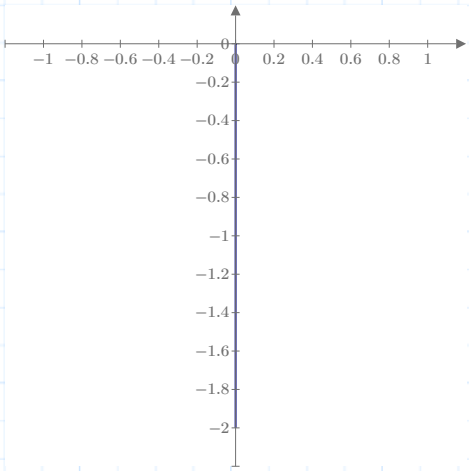


$im(\omega)\ \ (S)$

$re(\omega)\ \ (S)$

$re(\omega) := 0$

$im(\omega) := \frac{-1}{\omega \cdot L}$

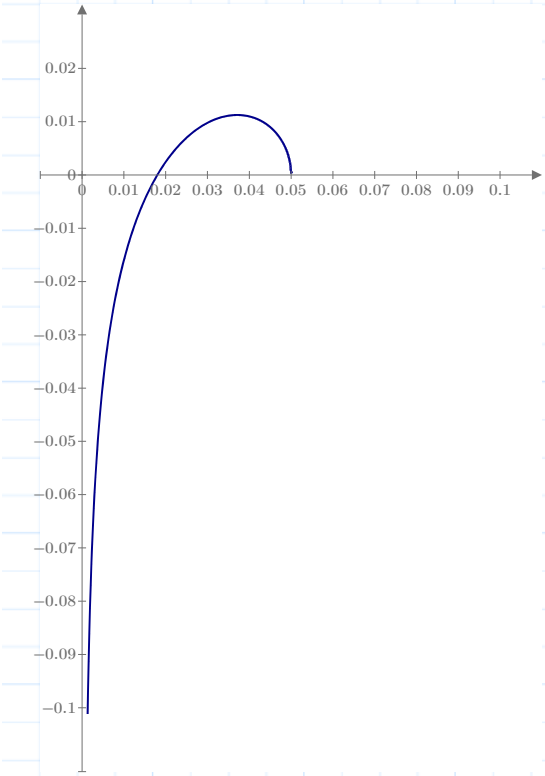


$im(\omega)\ \ (S)$

$re(\omega)\ \ (S)$

$$im_y(\omega) := \frac{\frac{1}{\omega \cdot C}}{R^2 + \left(\frac{1}{\omega \cdot C}\right)^2} - \frac{1}{\omega \cdot L}$$

$$re_y(\omega) := \frac{R}{R^2 + \left(\frac{1}{\omega \cdot C}\right)^2}$$

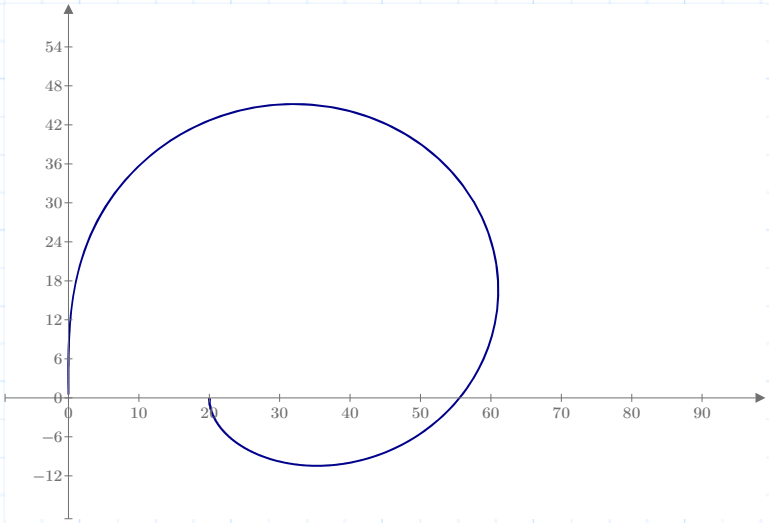


$im_y(\omega)$ (S)

$re_y(\omega)$ (S)

$$re_z(\omega) := \frac{re_y(\omega)}{\langle re_y(\omega)\rangle^2 + \langle im_y(\omega)\rangle^2}$$

$$im_z(\omega) := \frac{-im_y(\omega)}{\langle re_y(\omega)\rangle^2 + \langle im_y(\omega)\rangle^2}$$



$im_z(\omega)$ (Ω)

$re_z(\omega)$ (Ω)