$R1 := 327,1\ k\Omega$

$C1 := 50\ pF$

$F0 := \frac{1}{2 \cdot \pi \cdot R1 \cdot C1} = 9731,2714\ Hz$

$\omega 0 := 2 \cdot \pi \cdot F0 = 61143,3812\ Hz$

$T0 := \frac{1}{F0} = 0,1028\ ms$

$ZC1 := \frac{i}{\omega 0 \cdot C1} = 327,1 \cdot i\ k\Omega$

$ZLRG58 := \omega 0 \cdot 250\ nH \cdot i = 15,2858 \cdot i\ m\Omega$

$RRG58 := 1,5\ \Omega$

$ZCRG58 := \frac{i}{\omega 0 \cdot 101\ pF}$

$RCH1 := 10\ M\Omega$

$RCH2 := RCH1$

$ZC1RCH2 := \frac{ZC1 \cdot RCH2}{ZC1 + RCH2} = (0,0107 + 0,3268 \cdot i)\ M\Omega$

$ZCH := \frac{(ZC1RCH2 + R1) \cdot RCH1}{ZC1RCH2 + R1 + RCH1} = (0,3364 + 0,3054 \cdot i)\ M\Omega$

$Zg2 := \frac{ZCRG58 \cdot ZCH}{ZCRG58 + ZCH} = (0,0266 + 0,125 \cdot i)\ M\Omega$

$Zg := ZLRG58 + RRG58 + Zg2 = (0,0266 + 0,125 \cdot i)\ M\Omega$

$phase := \arg(Zg) = 77,983\ °$

$VSpp := \sqrt{2}\ V = 1,4142\ V$

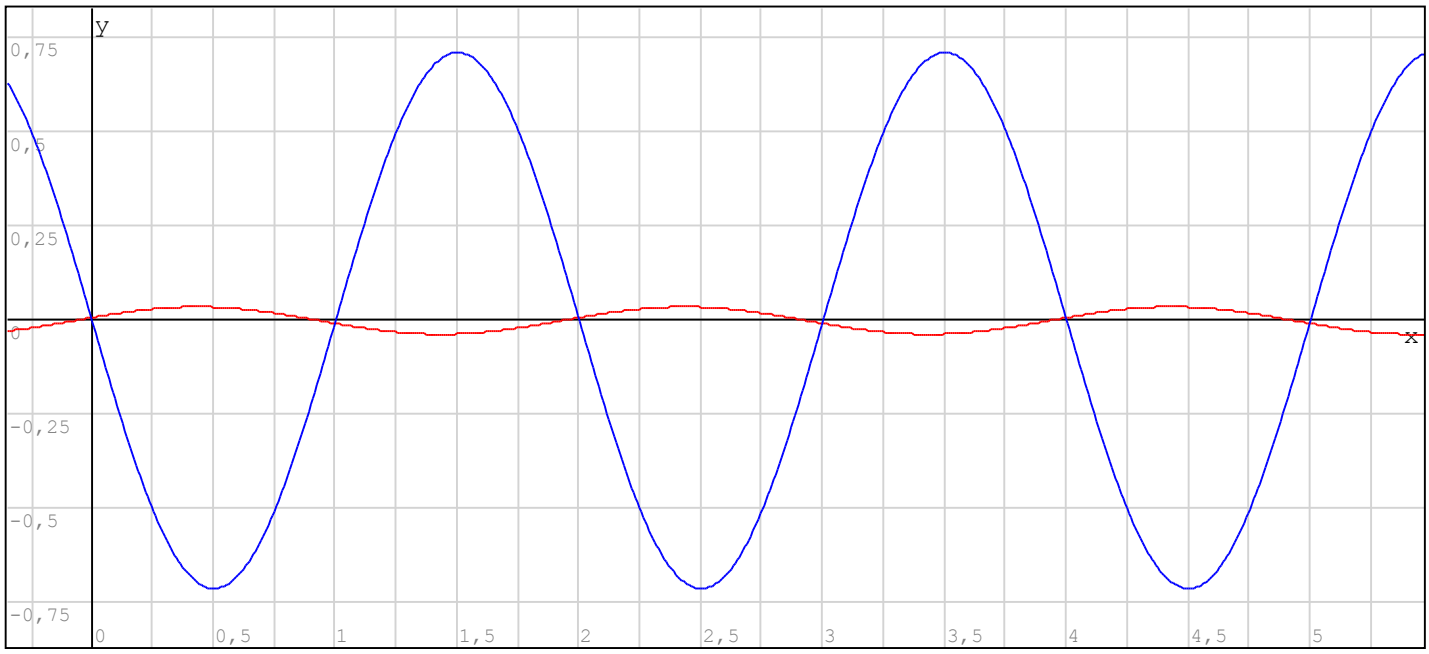
$\varphi v := 90\ °$

$VS(t) := \frac{VSpp}{2} \cdot e^{i \cdot (\omega 0 \cdot t + \varphi v)}$

$Ig(t) := \frac{VS(t)}{Zg}$

$VRG58(t) := Ig(t) \cdot \left(\frac{1}{ZLRG58} + \frac{1}{RRG58} \right)$

$V1(t) := VS(t) - 100 \cdot VRG58(t)$



$$\begin{cases} \mathrm{Re}\left(VS\left(x \cdot \frac{T0}{2}\right)\right) \\ 100 \cdot \mathrm{Re}\left(VRG58\left(x \cdot \frac{T0}{2}\right)\right) \\ \mathrm{Re}\left(V1\left(x \cdot \frac{T0}{2}\right)\right) \end{cases}$$