Find Vo(+):

$$\begin{cases}
0 & +60 \\
80 & 05 + 62.5 \\
0 & 2.5 \\
0 & 2.5 \\
0 & 2.5
\end{cases}$$

$$V_0(4) = V_0(\infty) + [V_0(0) - V_0(\infty)] e^{-t/2 \times 10^{-3}}$$
  
= 80e<sup>-500+</sup> V

## phasor

$$V = 50\cos(5000 + -60^{\circ}) + 25\sin(5000 + +110^{\circ}) - 75(05(5000 + -30^{\circ}))$$

$$50\cos(5000 + -60^{\circ}) + 25\cos(5000 + +20^{\circ}) + 75(05(5000 + +150^{\circ}))$$

$$-16.46 + j 2.75$$

[16.69cos(5000++170.520)