1. $\mathrm{a}=R, \mathrm{~b}=C, R C=2.9 \mathrm{~ms}$
2. $v_{1}(t)=$ constant -5 V
3. a) $v_{1}(t)=-10 \mathrm{~V}$ before time $t_{\mathrm{O}}$ and exponentially decays to 0 V after that
b) $v_{3}(t)=-12 \mathrm{~V}$ before time $t_{\mathrm{O}}+2 \mathrm{~ms}$ and 0 V thereafter
4. $\quad \mathbf{V}_{3}=8 \sqrt{2} \angle 45^{\circ} \mathrm{V}$
5. $v_{3}(t)=8 \sqrt{2} \cos \left(37 t+45^{\circ}\right) \mathrm{V}$
