- 1.  $i(t) = 0.9\cos(5000t + 36.869^{\circ})Amps$ ,  $ic(t) = 1.5\cos(5000t + 90^{\circ})Amps$
- 2.  $I = 2 \angle 125^{\circ} Amps$
- 3.  $Io = 5.26 \angle -74.75^{\circ} Amps$
- 4.  $Vo = 13.7 \angle -36.19^{\circ} Volts$
- 5.  $Vs = 6.71 \angle 26.57^{\circ} \ Volts$
- 6.  $Z = 1.98 \angle 83.08^{\circ} \ Ohms$
- 7.  $Vo(t) = 2.4\cos(5000t + 45^{\circ}) Volts$
- 8.  $Vo = 45.3 \angle 34.9^{\circ} \ Volts$