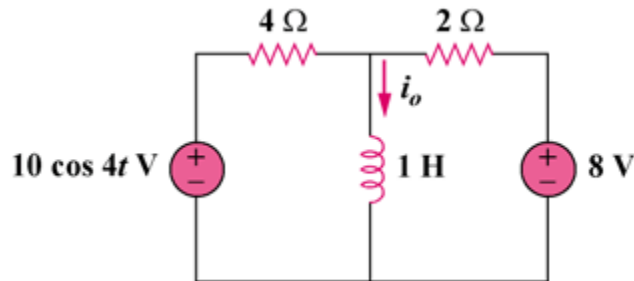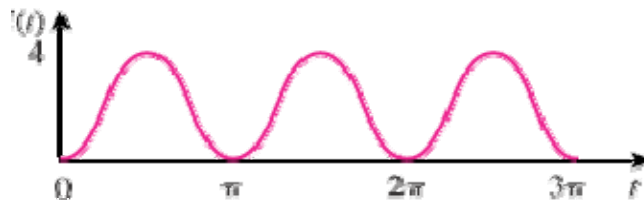**EE1002      Tutorial 10**
(Questions from Alexander & Sadiku, 7<sup>th</sup> edition, Problems 10.40, 11.22, & 11.27)

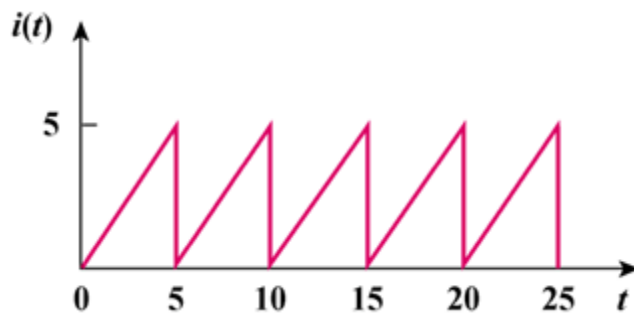1.      Find $i_o$ in the circuit shown in the following figure using superposition.



Ans:  [4 + 0.79cos(4t–71.56°)] A

2.      Find the rms value of the offset sine wave shown in the following figure.



Ans.: 2.449 A

3.      Calculate the rms value of the current waveform of the following figure.



Ans.:  2.887A