
Unit I: Assessment: Assignments

Assignment – Lecture 22

1. Four single phase generators whose EMFs can be represented by $e_1 = 20\sin\omega t$, $e_2 = 40\sin(\omega t + \pi/2)$, $e_3 = 30\sin(\omega t - \pi/6)$, $e_4 = 10\sin(\omega t - \pi/3)$ are connected in series. Find the resultant EMF. Also find the maximum value of resultant EMF and its phase angle relative to e_2