Q.1.

$d_{A_{12}} = 40m$, $d_{A_{13}} = 110m$, $d_{23} = 35m$.

for finding the position of unknown node we first need to find the correction from each anchor nodes.

∴ Correction Computation for Anchor node $A_1$.

$= \dfrac{40 + 110}{2 + 5}$

$= \dfrac{150}{7}$

$= 21.43 \, M$

Correction Computation for Anchor node $A_2$.

$= \dfrac{40 + 35}{2 + 3}$

$= \dfrac{75}{5}$

$= 15 \, M$

Correction Computation for Anchor node $A_3$

$= \dfrac{110 + 35}{5 + 3}$

$= \dfrac{145}{8}$