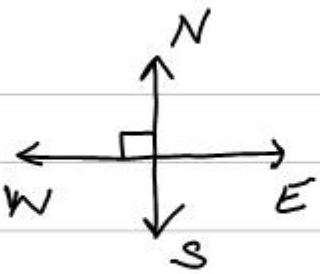
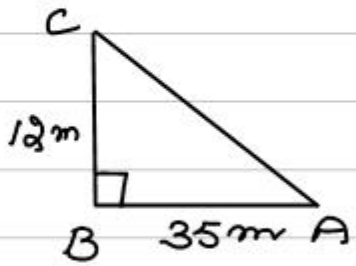
(13) Sol





In rt $\triangle ABC$

$AC^2 = AB^2 + BC^2$ (Pythagoras theorem)

$= 35^2 + 12^2$

$= 1225 + 144$

$= 1369$

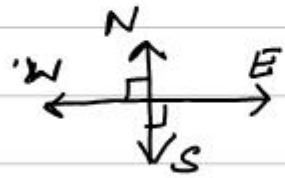
$AC = \sqrt{1369}$

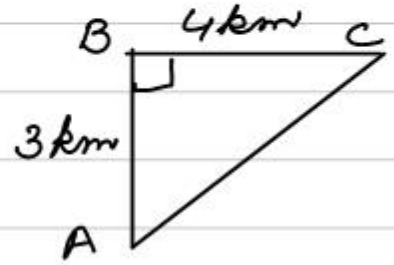
$= \sqrt{37 \times 37}$

$= 37$

$\therefore$ required distance $= 37$ m

(14)





In rt $\triangle ABC$

$AC^2 = AB^2 + BC^2$ (Pythagoras theorem)

$= 3^2 + 4^2$

$= 9 + 16$

$= 25$

$AC = \sqrt{25}$

$= \sqrt{5 \times 5}$

$= 5$ km

$\therefore$ required distance $= 5$ km