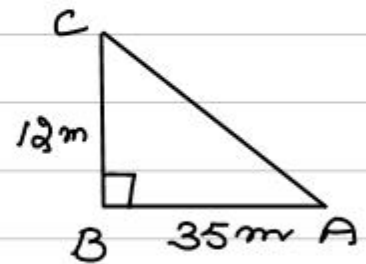
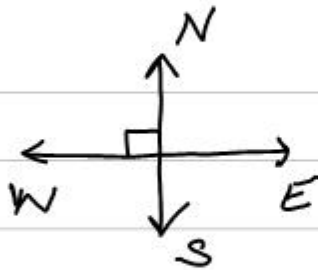


13)  
Sol



In rt  $\Delta ABC$

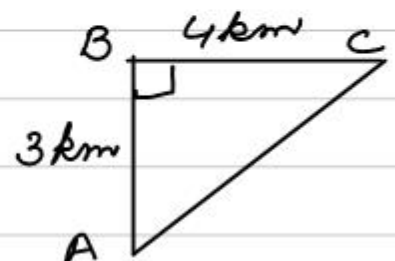
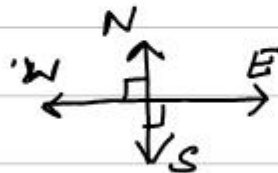
$$\begin{aligned} AC^2 &= AB^2 + BC^2 \\ &= 35^2 + 12^2 \\ &= 1225 + 144 \\ &= 1369 \end{aligned}$$

(Pythagoras theorem)

$$\begin{aligned} AC &= \sqrt{1369} \\ &= \sqrt{37 \times 37} \\ &= 37 \end{aligned}$$

$\therefore$  required distance = 37m

14)



In rt  $\Delta ABC$

$$\begin{aligned} AC^2 &= AB^2 + BC^2 \quad (\text{Pythagoras theorem}) \\ &= 3^2 + 4^2 \\ &= 9 + 16 \\ &= 25 \end{aligned}$$

$$\begin{aligned} AC &= \sqrt{25} \\ &= \sqrt{5 \times 5} \\ &= 5 \text{ km} \end{aligned}$$

$\therefore$  required distance = 5 km