

RS Aggarwal Class 10 Solutions Height and Distance

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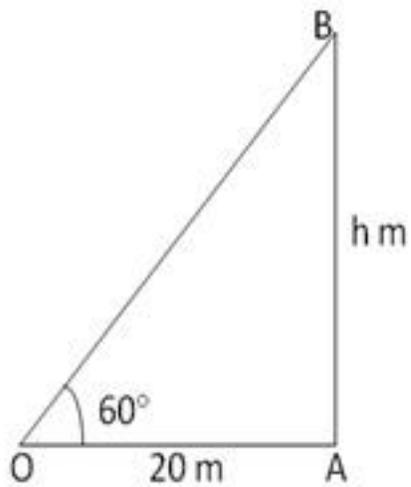
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Question 1:

Let AB be the tower standing on a level ground and O be the position of the observer. Then $OA = 20$ m and $\angle OAB = 90^\circ$ and $\angle AOB = 60^\circ$



Let $AB = h$ meters

From the right $\triangle OAB$, we have

$$\frac{AB}{OA} = \tan 60^\circ = \sqrt{3}$$

$$\Rightarrow \frac{h}{20} = \sqrt{3}$$

$$\Rightarrow h = (20 \times \sqrt{3})$$

$$\Rightarrow h = 20 \times 1.732$$

$$\Rightarrow h = 34.64\text{m}$$

Hence the height of the tower is $[latex]20\sqrt{3} m=34.64m$ $[/latex]$