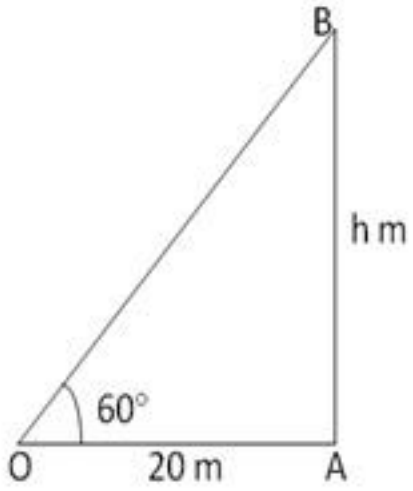
RS Aggarwal Class 10 Solutions Height and Distance

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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 $\angle OAB = 90°$ and $\angle AOB = 60°$



Let AB = h meters

From the right ΔOAB, we have

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

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

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

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

$$\Rightarrow h = 34.64m$$

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