

Exercise – 14.1

1.

Sol:

Let AB be the tower standing vertically on the ground and O be the position of the observer we now have:

OA = 20 m, $\angle OAB = 90^\circ$ and $\angle AOB = 60^\circ$

Let

AB = h m



Now, in the right $\triangle OAB$, we have:

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

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

$$\Rightarrow h = 20\sqrt{3} = (20 \times 1.732) = 34.64$$

Hence, the height of the pole is 34.64 m.

2.

Sol:

Let OX be the horizontal ground and A be the position of the kite.

Also, let O be the position of the observer and OA be the thread.

Now, draw $AB \perp OX$.

We have:

$\angle BOA = 60^\circ$, OA = 75 m and $\angle OBA = 90^\circ$

Height of the kite from the ground = AB = 75 m

Length of the string OA = x m

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