

RD SHARMA

Solutions

Class 6 Maths

Chapter 19

Ex 19.4

Q.1 Construct the following angles with the help of protractor :

$45^\circ, 67^\circ, 38^\circ, 110^\circ, 179^\circ, 98^\circ, 84^\circ$.

Soln.1 :

45°

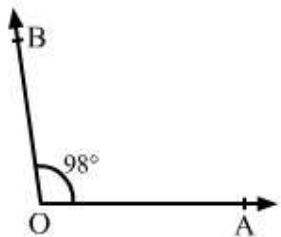
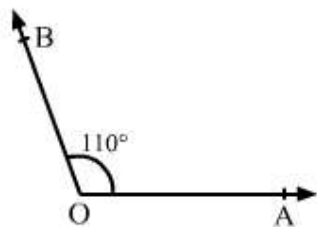
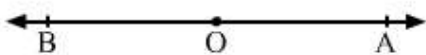
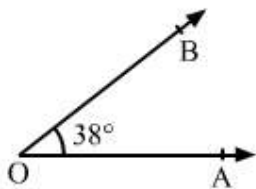
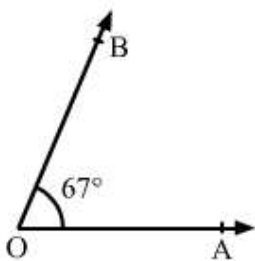
We draw a ray OA.

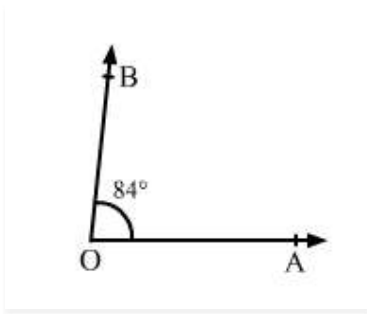
We place the protractor on OA such that its center coincides with the point O and the diameter of the protractor coincides with OA.

We mark a point B against the mark of 45° on the protractor.

We remove the protractor and draw OB. $\angle AOB$ is the required angle of 45° .

Similarly, we draw the angles $67^\circ, 38^\circ, 110^\circ, 179^\circ, 98^\circ$ and 84° .





Q.2 Draw two rays PQ and RS as shown in figure. Using the protractor, construct angles of 15° and 138° with one arm PQ and RS respectively.

Soln.2 :

(i) Draw a ray PQ as given in the question.

Place the protractor on the ray PQ such that its center coincides with the point P and the diameter of the protractor coincides with PQ.

Mark a point B against the mark of 15° on the protractor.

Remove the protractor and draw PB. $\angle QPB$ is the required angle of 15° .

(ii) Draw a ray RS as given in the question.

Place the protractor on ray RS such that its centre coincides with the point R and diameter of the protractor coincides with RS.

Mark a point T against the mark of 138° on the protractor.

Remove the protractor and draw RJ.

$\angle SRT$ is the required angle of 138° .