Geometrical Constructions Ex 19.4 Q1

Answer :

45°

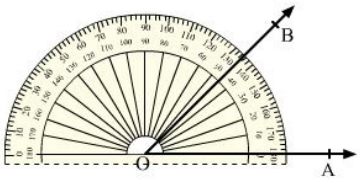
We draw a ray OA.

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

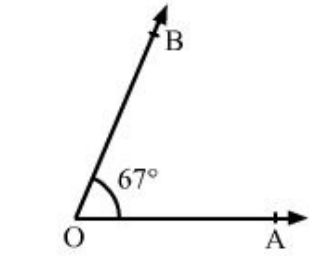
We mark a point B against the mark of 45° on the protractor

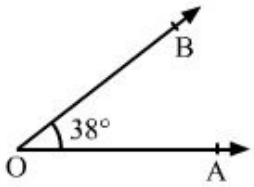
We remove the protractor and draw OB.

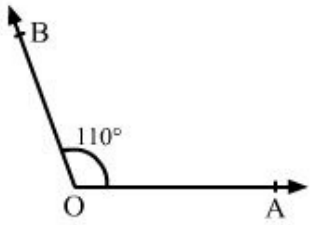
∠AOB is the required angle of 45°.

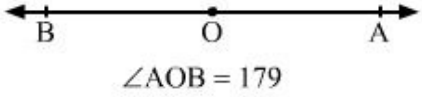


Similarly, we draw the angles of 67°, 38°, 110°, 179°, 98° and 84°.

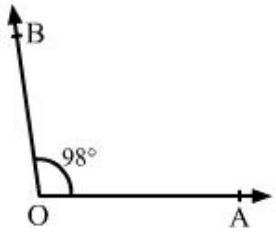


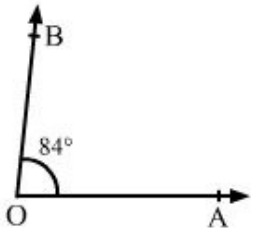






∠AOB = 179

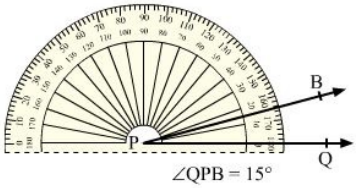




Geometrical Constructions Ex 19.4 Q2

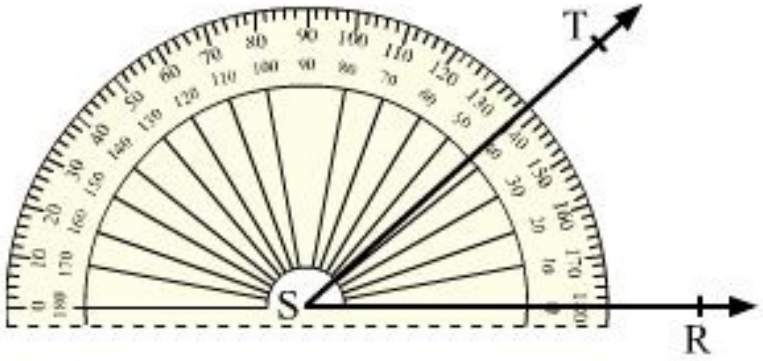
Answer :

(i) Draw a ray PQ as given in the question.
Place the protractor on the ray PQ such that its centre 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.
∠QPB is the required angle of 15°.



∠QPB = 15°

(ii) Draw a ray RS as given in the question.
Place the protractor on the 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.
∠SRT is the required angle of 138°.



∠SRT = 138°

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