1. Construct the following angles with the help of a protractor:
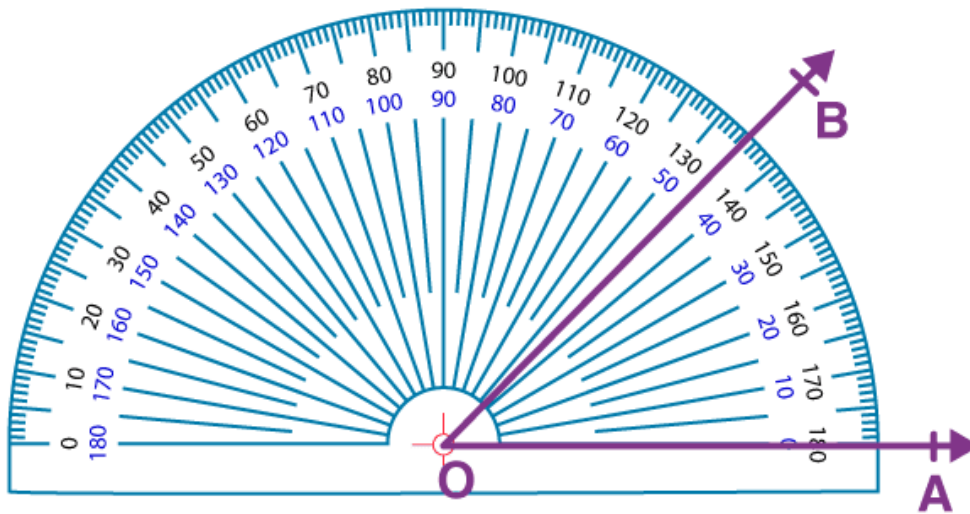**45º, 67º, 38º, 110º, 179º, 98º, 84º**
Solution:

Construct a ray OA.
Now place the protractor on the ray OA such that its centre coincides with point O and the diameter coincides with OA.
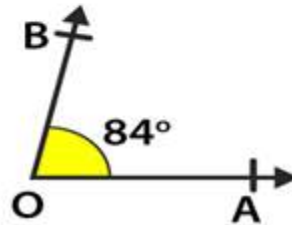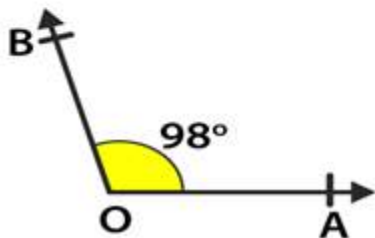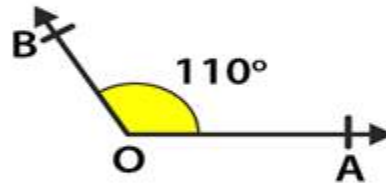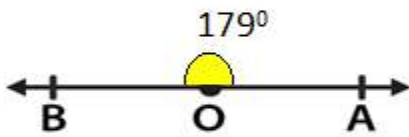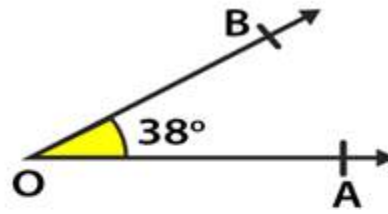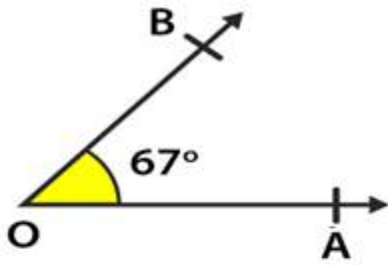Mark a point B against the mark of 45º on the protractor.
Remove the protractor and construct the line OB where ∠AOB is the required angle.

In the same way draw the angles 67º, 38º, 110º, 179º, 98º and 84º

2. Draw two rays PQ and RS as shown in Fig. 19.14 (i) and (ii). Using protractor, construct angles of 15⁰ and 138⁰ with one arm PQ and RS respectively.

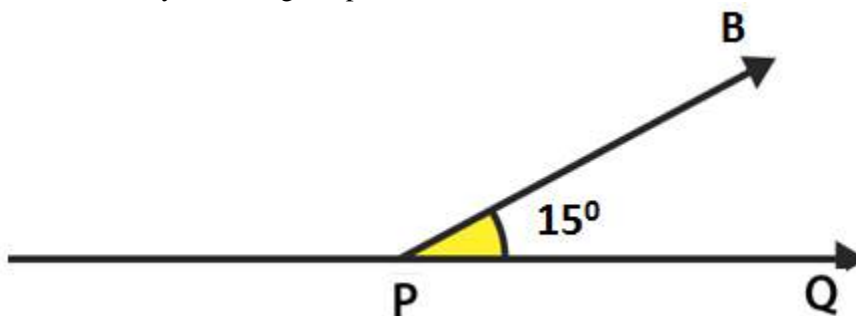(i)   (ii)

Solution:

(i) Construct a ray PQ as given in the question.
Now place the protractor on PQ such that its centre coincides with the point P and the diameter coincides with PQ.
Mark B against the mark of 15° on the protractor.
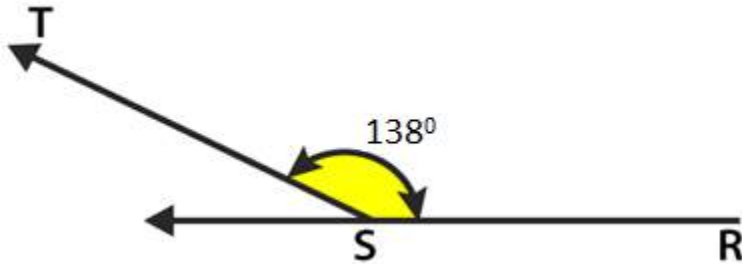Construct PB by removing the protractor.

Here ∠QPB is the required angle of 15°.

(ii) Construct a ray RS as given in the question.
Now place the protractor on RS such that its centre coincides with the point R and the diameter coincides with RS.
Mark T against the mark of 138° on the protractor.
Construct ST by removing the protractor.

Here ∠RST is the required angle of 138°.