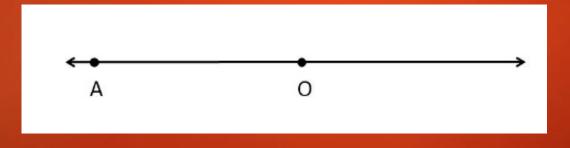
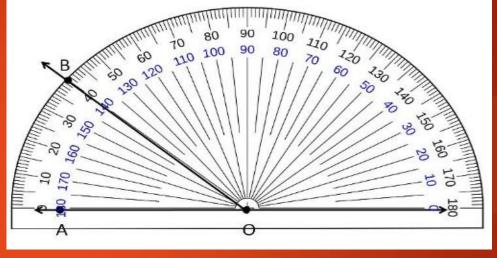
CLASS-6 MODULE-5/8 PRACTICAL GEOMETRY



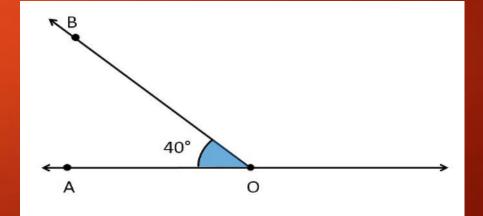
 CONSTRUCTING AN ANGLE OF A GIVEN MEASURE Let us construct an angle of measure 40°.
Steps of construction :
Draw AB of any length.



Place the centre of the protractor at O and zero edge along protractor. Start with zero near A. Mark point B at 40^o.

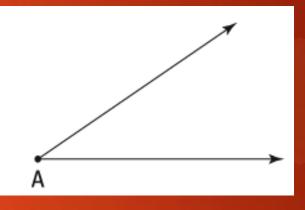


▶ Join OB. ∠AOB is the required angle.



Constructing a copy of an angle of Unknown measure.

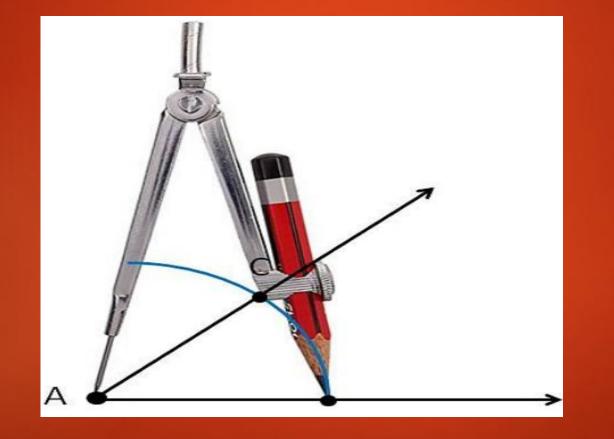
▶ Given ∠A, whose measure is not known.



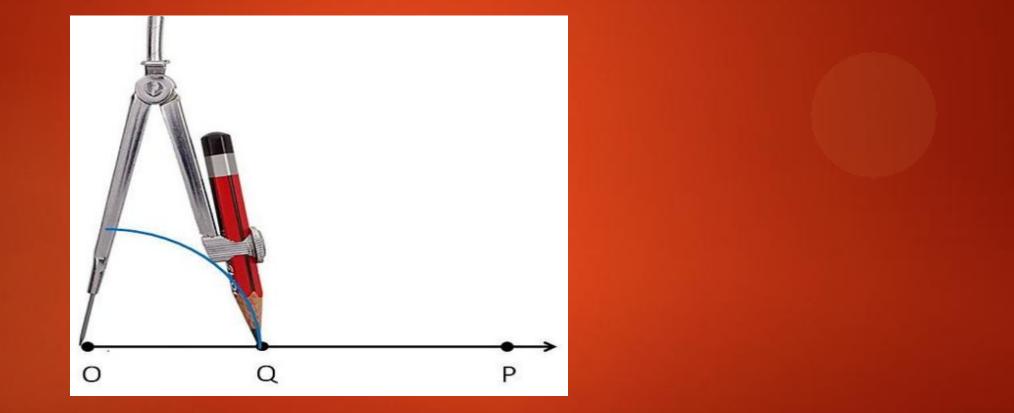
Draw a line l and choose a point P on it.



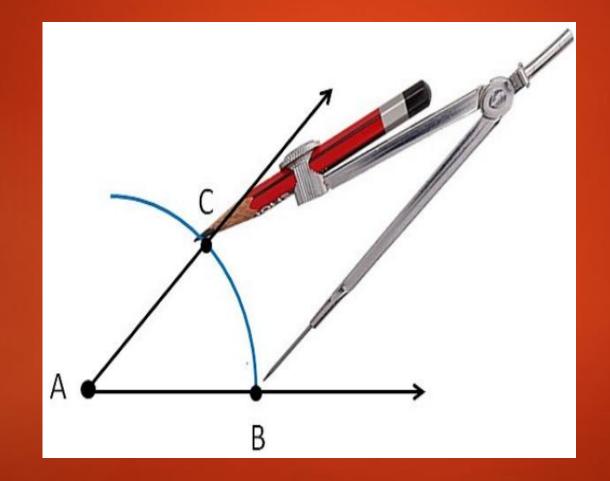
Place the compasses at A draw an arc to cut the rays of ∠ A at B and C



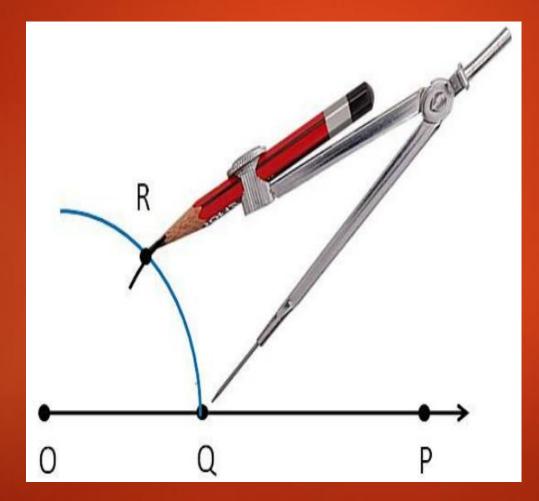
Use the same compasses setting to draw an arc with O as centre, cutting l in Q



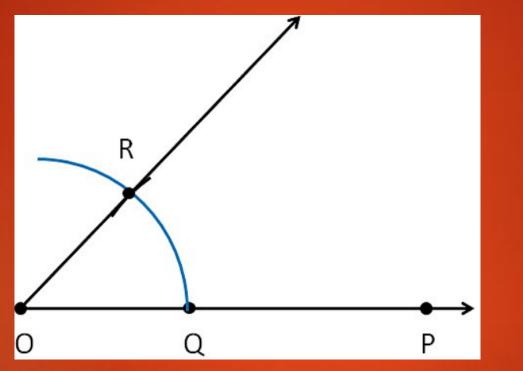
Set your compasses to the length BC with the same radius.



Place the compasses pointer at Q and draw the arc to cut the arc drawn earlier in R.



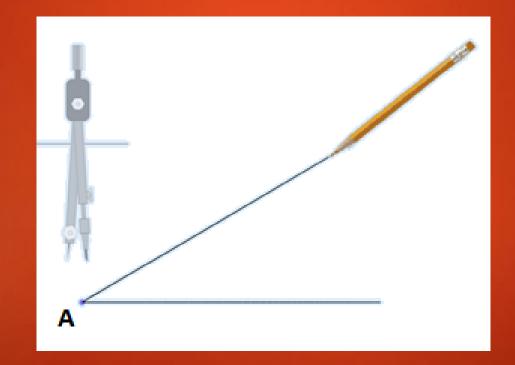
Join PR. This gives us ∠ P. it has same measure as ∠ A



► This means ∠ QPR has same measure as ∠ BAC

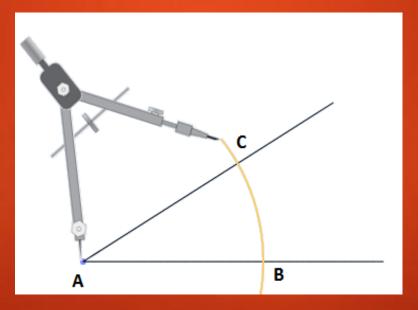
Bisector of an angle

 \blacktriangleright Let an angle, say, \angle A is given.

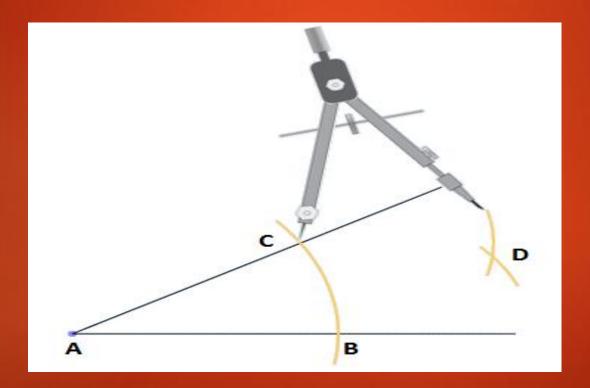


With A as centre and using compasses, draw an arc that cuts both rays of ∠A.

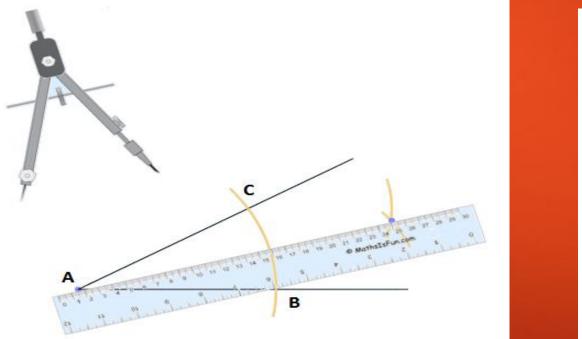
Label the points of intersection as B and C.

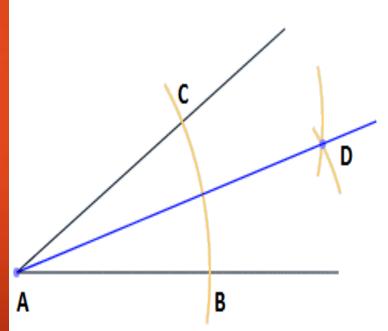


With B as centre draw (in the interior of angle ∠A) an arc whose radius is more than half the length of BC.



With the same radius and with C as centre draw another arc in the in the interior of ∠A. let the two arcs intersect at D. then AD is the required bisector of ∠A





THANK YOU

- V V DURGA BHAVANI
- ► TGT (MATH/PHY)
- ► AECS-2, TARAPUR.