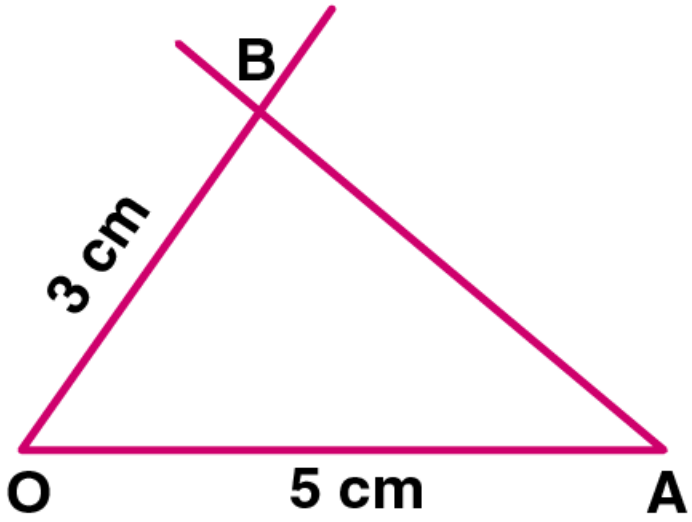
EXERCISE 25(D)

1. Draw a line segment OA = 5 cm. Use set-square to construct angle AOB = 60^0, such that OB = 3 cm. Join A and B; then measure the length of AB.

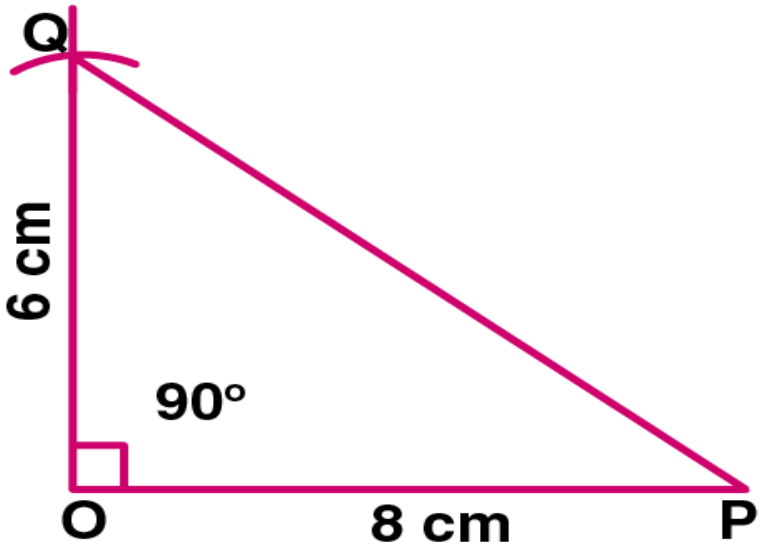
Solution:

The length of AB = 4.4 cm (approximately)



2. Draw a line segment OP = 8 cm. Use set-square to construct ∠POQ = 90^0; such that OQ = 6 cm. Join P and Q; then measure the length of PQ.

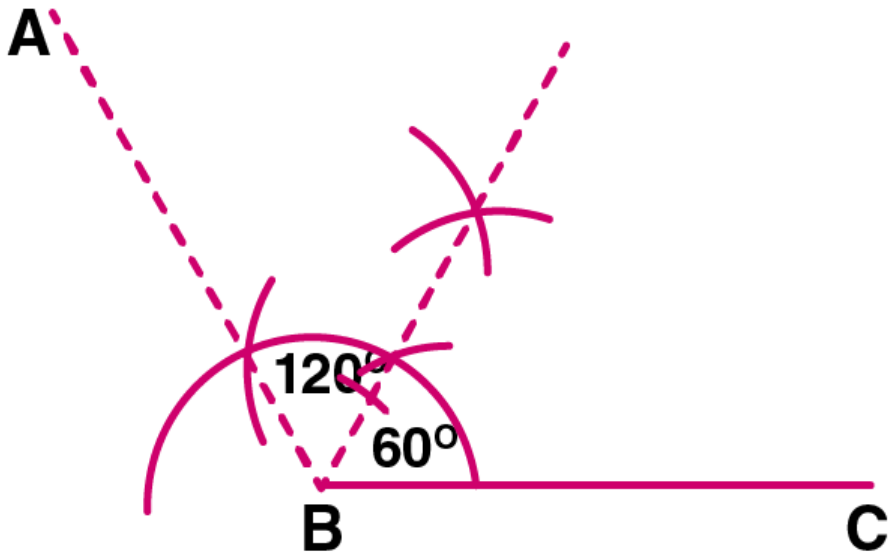
Solution:



Measuring the length of PQ = 10 cm

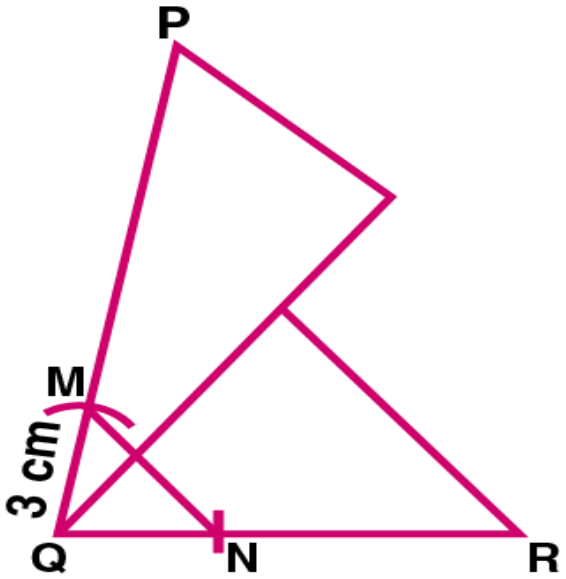
3. Draw ∠ABC = 120^0. Bisect the angle using ruler and compasses. Measure each angle so obtained and check whether or not the new angles obtained on bisecting

∠ABC are equal.
Solution:



Each angle measure = 60^0
Yes, the angles obtained on bisecting ∠ABC are equal

4. Draw ∠PQR = 75^0 by using set-squares. On PQ mark a point M such that MQ = 3 cm. On QR mark a point N such that QN = 4 cm. Join M and N. Measure the length of MN.
Solution:



The length of MN = 4.3 cm