Constructions Ex 17.2 Q6

Answer :

Steps of construction:

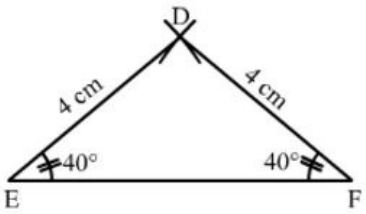
Draw a line segment EF of length 6 cm.

With E as centre, draw an arc of radius 4 cm.

With F as centre, draw an arc of radius 4 cm intersecting the previous arc at D.

Join DE and DF to get the desired triangle.DF, .

By measuring we get, $\angle E = \angle F = 40^{\circ}$



Constructions Ex 17.2 Q7

Answer :

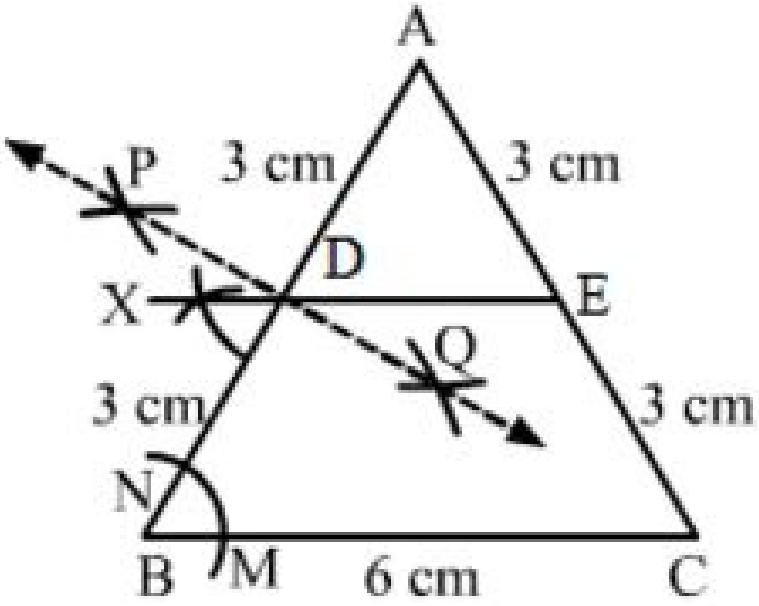
We first draw a triangle ABC with each side = 6 cm.

Steps to bisect line AB:

1. Draw an arc from A on either side of line AB.
2. With the same radius as in the previous step, draw an arc from B on either side of AB intersecting the arcs drawn in the previous step at P and Q.
3. Join PQ cutting AB at D. PQ is the perpendicular bisector of AB.

Parallel line to BC:

1. With B as centre, draw an arc cutting BC and BA at M and N, respectively.
2. With centre D and the same radius as in the previous step, draw an arc on the opposite side of AB to cut AB at Y.
3. With centre Y and radius equal to MN, draw an arc cutting the arc drawn in the previous step at X.
4. Join XD and extend it to intersect AC at E.
5. DE is the required parallel line.



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