Mathematics

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(Chapter – 10) (Practical Geometry) (Class – VII)

Exercise 10.3

Question 1:

Construct \triangle DEF such that DE = 5 cm, DF = 3 cm and $m \angle$ EDF = 90°. **Answer 1:**

To construct: \triangle DEF where DE = 5 cm, DF = 3 cm and $m \angle$ EDF = 90°. **Steps of construction**:

(a) Draw a line segment DF = 3 cm.

(b) At point D, draw an angle of 90° with the help of compass i.e., \angle XDF = 90°.

(c) Taking D as centre, draw an arc of radius 5 cm, which cuts DX at the point E. (d) Join EF.

It is the required right angled triangle DEF.



Question 2:

Construct an isosceles triangle in which the lengths of each of its equal sides is 6.5 cm and the angle between them is 110° .

Answer 2:

To construct: An isosceles triangle PQR where PQ = RQ = 6.5 cm and $\angle Q = 110^{\circ}$. **Steps of construction**:

- (a) Draw a line segment QR = 6.5 cm.
- (b) At point Q, draw an angle of 110° with the help of protractor, i.e., \angle YQR = 110° .
- (c) Taking Q as centre, draw an arc with radius 6.5 cm, which cuts QY at point P.
- (d) Join PR

It is the required isosceles triangle PQR.



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Question 3:

Construct \triangle ABC with BC = 7.5 cm, AC = 5 cm and $m \angle$ C = 60°. **Answer 3:**

To construct: \triangle ABC where BC = 7.5 cm, AC = 5 cm and $m \angle C = 60^{\circ}$. **Steps of construction**:

(a) Draw a line segment BC = 7.5 cm.

(b) At point C, draw an angle of 60° with the help of protractor, i.e., \angle XCB = 60° .

(c) Taking C as centre and radius 5 cm, draw an arc, which cuts XC at the point A.

(d) Join AB

It is the required triangle ABC.





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