

Chapter 11 – Constructions

MM 20

Class X

Time 1h

1 Mark Each

1. Draw a line segment of 5cm and divide it in ratio 2:3.
2. Draw a line segment AB = 5cm. Using it draw AC = 2.5 AB

3 Marks Each

3. Draw a pair of tangents to a circle of radius 4cm which are inclined to each other at 45°
4. Draw a circle of radius of 3.5cm. Take two points P and Q on one of its extended diameters at a point 8cm from its centre. Draw tangents to the circle from P and Q
5. Draw right triangle ABC in which AB = 3cm, BC = 4cm and angle B = 90° . Draw $BD \perp AC$ from B. Draw a circle passing through B, C and D. Construct tangents A to this circle.
6. Draw a triangle with sides 4cm, 5cm and 6cm. Construct another triangle with sides $\frac{5}{3}$ times the corresponding sides of given triangle.
7. Draw a triangle with BC = 6cm angle B = 45° , angle A = 105° . Construct a triangle whose sides are $\frac{2}{3}$ times the corresponding sides of given triangle.
8. Draw a circle with a round object and draw a pair of tangents to the circle From external point.

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