MATHS

NCERT - NCERT MATHEMATICS(BENGALI ENGLISH)

GEOMETRICAL CONSTRUCTIONS

Examples

1. Draw the perpendicular bisector of a given line segment AB=7cm.

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2. Construct the bisector of a given angle $\angle ABC = 60^\circ$.

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3. Draw a ray AB with initial point A and construct a ray AC such that $\angle BAC$ = 60°.

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4. Construct a $\triangle ABC$ given BC = 5 cm., AB + AC = 8 cm. and $\angle ABC = 60^\circ$.

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5. Construct ΔABC in which BC = 4.2 cm, $\angle B$ = 30° and AB − AC = 1.6 cm

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6. Construct $\triangle ABC$ in which BC = 5cm, $\angle B = 45^\circ$ and AC – AB = 1.8 cm.

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7. Construct a triangle ABC, in which $\angle B = 60^\circ$, $\angle C = 45^\circ$ and AB + BC + CA = 11 cm.

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8. Draw the perpendicular bisector of a given line segment AB=6cm.

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Try This

1. Construct the bisector of a given angle $\angle ABC = 90^\circ$.

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2. Draw a circle, Identify a point on it. Cut arcs on the circle with the length of the radius in succession. How many parts can the circle be divided into? Give reason.

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3. Draw the perpendicular bisector of a given line segment AB=8cm.

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4. What happen if the angle in the circle segment is right angle? What kind of segment do you obtain? Draw the figure and give reason.

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5. Construct an equilateral triangle with side 7 cm.

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6. construct a triangle ABC with BC = 6 cm, $\angle B = 60^\circ$ and AB = 5cm.

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Exercise 13 1

1. construct

90° by compass

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2. Construct the angle using ruler and compass and verify by measuring by a protractor.

30°

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3. Construct an equilateral triangle, given its side of length of 4.5 cm

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4. construct

45° by compass

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Exercise 13 2

1. Construct $\triangle ABC$ in which BC = 7 cm, $\angle B = 75^\circ$ and AB = 12 cm.

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2. Construct $\triangle PQR$ in which QR = 8 cm, $\angle Q = 60^\circ$ and PR = 5 cm

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3. Construct $\triangle XYZ$ in which $\angle Y = 30^\circ$, $\angle Z = 60^\circ$ and YZ = 10 cm.

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4. Construct a right triangle whose base is 7.5cm. and sum of its hypotenuse and other side is 15cm.

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