



MATHS

NCERT - NCERT

MATHEMATICS(GUJRATI ENGLISH)

GEOMETRICAL CONSTRUCTIONS

Examples

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



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



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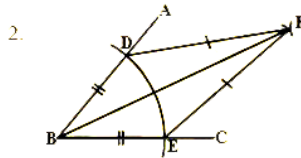
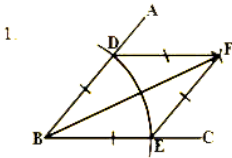
3. Construct a segment of a circle on a chord of length 7cm. and containing an angle of 60° .



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Try This

1. Observe the sides, angles and diagonals of quadrilateral BEFD. Name the figures given below and write properties of figures.



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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. Can you draw the triangle with the same measurements in alternate way?



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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. Can you construct the triangle ABC with the same measures by changing the base angle $\angle C$ instead of $\angle B$? Draw a rough sketch and construct it



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6. Can you construct a triangle ABC with $BC = 6$ cm, $\angle B = 60^\circ$ and $AB + AC = 5$ cm.? If not, give reasons.



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Exercise 13 2

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



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



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