MATHS
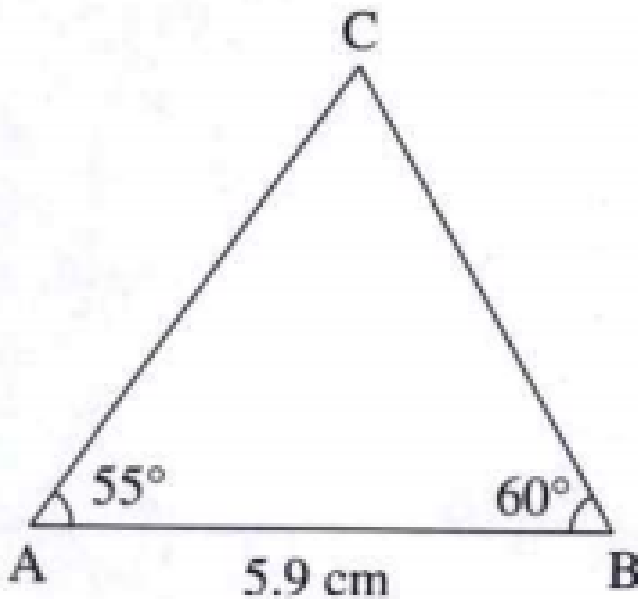
BOOKS - BAL BHARTI

GEOMETRIC CONSTRUCTIONS

Example

1. $\triangle ABC - \triangle PQR$, in $\triangle ABC$, AB - 5.4 cm, BC = 4.2 cm, AC = 6.0 cm, AB: PQ = 3:2 Construct $\triangle ABC$ and $\triangle PQR$

2. Construct δ ABC such that $m\angle A = 55°$, $m\angle B = 60°$ and l (AB) = 5.9 cm.

Rough figure

3. If the radius of a circle is 21 cm then area of the circle is

4. Construct a parallelogram ABCD such that $l(BC) = 7cm$,

$m\angle ABC = 40°$, $l(AB) = 3cm$.

1. Draw $\triangle ABC$, AB=3 cm, BC=4 cm, AC=5 cm, measure $\angle B$.

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2. Construct $\triangle$ PQR such that l (PQ) = 7 cm, l (QR) = 8 cm and l (PR) = 9 cm.

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3. In $\triangle$ LMN, l (LM) = 6.2 cm. $m\angle$ LMN = $60°$, l (MN) = 4 cm. Construct $\triangle$ LMN.

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4. In $\triangle$ LMN, l (LM) = 6.2 cm. $m\angle$ LMN = $60°$, l (MN) = 4 cm. Construct $\triangle$ LMN.

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1. Solve the following questions : (Any2) (1)

Draw a circle with centre P and radius 3.5 cm.

Take a point A on it. Draw a tangent at point A.

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2. Draw a circle of radius 2.7 cm.Draw a

tangent to the circle at any point on it.

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3. Draw a circle of radius 2.7 cm.Draw a tangent to the circle at any point on it.

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4. Draw a circle of radius 3.3 cm.Draw a chord PQ of length 6.6 cm.Draw tangents to the circle at points P and Q.Write your observation about the tangents.

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5. Draw a circle with radius 3.4 cm.Draw a chord MN of length 5.7 cm in it.Construct tangent at point M and N to the circle.

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6. Draw a circle of radius 2.9 cm. Draw a tangent at point P on the circle.

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7. Draw a circle of radius 2.7 cm.Draw a tangent to the circle at any point on it.

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Problem Set 4 M C Q

1. The number of tangents that can be drawn to a circle at a point on the circle is.....a)3 b)2 c)1 d)0

A. 3

B. 2

C. 1

D. 0

Answer:

2. The maximum number of tangents that can be drawn to a circle from a point outside it is............a)2 b)1 c) one and only one d)0

A. 2

B. 1

C. one and only one

D. 0

Answer:

3. In $\triangle XYZ$, XY = 4 cm , YZ = 6 cm, XZ = 5 cm. If $\triangle XYZ \sim \triangle PQR$ and PQ = 8 cm, then find the length of remaining sides of $\triangle PQR$.

A. ΔABC is bigger

B. ΔPQR is bigger

C. Both triangles will be equal

D. Can not be decided.

Answer:

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Problem Set 4

1. Draw a circle of radius 2.9 cm. Draw a tangent at point P on the circle.

2. Draw a circle with radius 3.4 cm.Draw a chord MN of length 5.7 cm in it.Construct tangent at point M and N to the circle.

3. Draw a circle of diameter 7 cm. Take a point M at a distance of 10cm from its center. Construct a pair of tangents from the point M to the circle.

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4. Draw a circle of radius 3.3 cm.Draw a chord PQ of length 6.6 cm.Draw tangents to the circle at points P and Q.Write your observation about the tangents.

5. Draw a tangent to a circle of radius 3 cm and centre'O' at any point 'K' on the circle.

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6. In $\triangle ABC$, $\angle A = 76°$, $\angle B = 48°$, then $\angle C$ =

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7. Construct $\triangle$ PQR such that l (PQ) = 7 cm, l (QR) = 8 cm and l (PR) = 9 cm.