

Mathematical Aptitude

Practical Geometry

Application Based Questions

Q.1. Subjective questions:

1. Draw a pair of tangents to a circle of radius 5 cm. which are inclined to each other at an angle of 60° .

Ans.
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2. Draw a triangle ABC in which $BC = 5.2$ cm, $\angle B = 60^\circ$ and $\angle A = 90^\circ$.

Ans.
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3. Draw triangle ABC with $\angle C$ a right angle, $AB = 6.2$ cm and $BC = 4.5$ cm.

Ans.
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4. Draw a right triangle having hypotenuse of length 5.4 cm, and one of the acute angles of measure 60° .

Ans.
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5. Construct an isosceles $\triangle ABC$ with base $BC = 6.6$ cm and altitude AD to this base is 4.8 cm.

Ans.
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6. Construct a quadrilateral ABCD, with $AB = 5.4 \text{ cm}$, $BC = 4.6 \text{ cm}$, $\angle A = 90^\circ$, $\angle B = 60^\circ$ and $\angle C = 120^\circ$.

Ans.
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