

By. Er. Dharmendra Sir

7974073108, 9584873492

# DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**CIRCLE**

**SESSION -2024-25**

**CLASS - 10<sup>th</sup>**

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Time : 1 hr

∴ Circle :-

mm!

Q. 1. The length of a tangent from a point A at a distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.



Q. 2. A tangent PQ at a point P of a circle of radius 5 cm meet a line through the centre O at a point Q so that OQ = 12 cm. Find the length of PQ.

Q. 3. From a point Q, the length of the tangent to a circle is 24 cm and the distance of Q from the centre is 25 cm. Find the radius of the circle.

Q. 4. Prove that the tangent at any point of a circle is perpendicular to the radius through the point of contact.



Q. 5. Prove that in two concentric circles, the chord of the larger circle, which touches the smaller circle, is bisected at the point of contact.

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Q.6. Prove that the tangents drawn at the end point of diameter of a circle are parallel.

Q.7. Prove that the perpendicular at the point of contact to the tangent to a circle, passes through the centre.



Q.8. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which touches the smaller circle.

Q.9. Prove that the parallelogram circumscribing a circle is a rhombus.



Q.10. Prove that the lengths of two tangents drawn from an external point to a circle are equal.

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