

## Mathematics - FSC Part 2 Mathematics Chapter 6 Short Questions Preparation

Q1. Define a chord of the circle.

**Ans 1:** A line segment whose end points lie on the circle is called a chord of the circle.

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Q2. In cone how the section of an ellipse is obtained.

**Ans 1:** If the cutting plane is slightly tilted and cuts only one nappe of the cone, then the section is an ellipse.

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Q3. Define conics.

**Ans 1:** The curves obtained by cutting a (double) right circular cone by a plane are called conics.

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Q4.

**Ans 1:**

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Q5. Define a tangent line to a curve.

**Ans 1:** A line that touches the curve without cutting through it is called a tangent line to the curve.

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Q6.

**Ans 1:**

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Q7. Define hyperbola as plane section of a cone.

**Ans 1:** If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section is a hyperbola.

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Q8.

**Ans 1:**

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Q9.

**Ans 1:**

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Q10. Define point circle.

**Ans 1:** If the cone is cut by a plane passes through the vertex A, then the intersection is just a single point or a point circle.

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