

## Mathematics - FSC Part 1 Mathematics Short Questions Chapter 9 Preparation

Q1.

Ans 1:

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Q2.

Ans 1:

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Q3.

Ans 1:

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Q4.

Ans 1:

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Q5.

Ans 1:

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Q6.

Ans 1:

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Q7. What is a radian ?

**Ans 1:** An angle subtended at the center of the circle by an arc of length equal to the radius of the circle is called radian.

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Q8. What is a degree ?

**Ans 1:** If a unit circle is divided into 360 equal parts then the angle subtended by such one part at the center of the circle is called one degree. It is denoted by  $1^\circ$ ,  $1\text{rev} = 360^\circ$

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Q9.

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**Ans 1:**

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Q10. What are fundamental identities in trigonometry ?

**Ans 1:** For any real number  $\Theta$ , there are three fundamental identities:

i.  $\sin^2\Theta + \cos^2\Theta = 1$

ii.  $1 + \tan^2\Theta = \sec^2\Theta$

iii.  $1 + \cot^2\Theta = \csc^2\Theta$

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