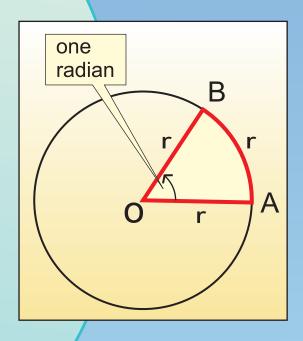
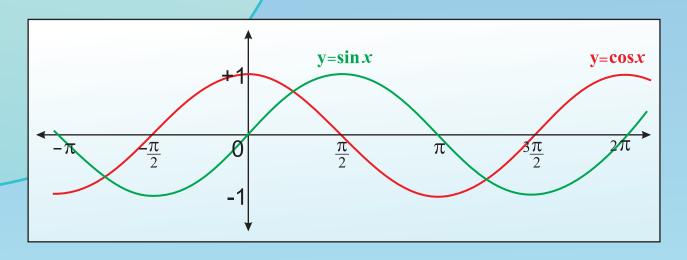
Standard XI



Mathematics & Statistics

(Arts & Science) Part 1





The Coordination Committee formed by GR No. Abhyas - 2116/(Pra.Kra.43/16) SD - 4 Dated 25.4.2016 has given approval to prescribe this textbook in its meeting held on 20.06.2019 and it has been decided to implement it from the educational year 2019-20.

Mathematics and Statistics

(Arts and Science)

Part - I

STANDARD - XI



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XI Mathematics and Statistics (Part I) for Arts and Science

Sr. No	Area	Topic	Competency Statement
1	Angle and Its measurement	Angle	 The student will be able to - understand angle of any measure. understand different systems of measurement of angle and relations between them. convert an angle from one system to the other.
2	Trigonometric Functions	Trigonometric Functions	 understand definitions of trigonometric functions of angle of any measure. find the values of trigonometric functions of certain angles. draw graphs of trigonometric functions.
3	Trigonometric Functions of compound angles and fractorization formulae	Trigonometric Functions of compound angles	 find the trigonometric functions of sum or difference of the angles. find the trigonometric functions of multiple and sub-multiple angles. express the sum or difference of two trigonometric functions as product learn some rules of trigonometric ratios of angles of a triangle.
4	Determinants and Matrices	Determinant	 find value of a determinant. reduce determinant to simple form. solve linear equations in 2 or 3 variables find area of triangle using determinants.
		Matrices	 understand types of matrices. Perform algebraic operations of the matrices.

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$$\begin{bmatrix} 1 & 0 & 4 \\ -2 & 1 & 3 \end{bmatrix} \times \begin{bmatrix} 3 & 1 & 0 \\ -2 & 0 & 5 \\ 4 & 3 & -1 \end{bmatrix} = \begin{bmatrix} 19 & 13 & -4 \\ 4 & 7 & 2 \end{bmatrix}$$





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