

X - CBSE BOARD - 2018

CODE (30/3)

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Mathematics - Question Paper Solutions

SECTION A

1. What is the value of $(\cos^2 67^\circ - \sin^2 23^\circ)$?

Ans. $\cos^2 67^\circ - \sin^2 23^\circ$
 as $\cos(90^\circ - \theta) = \sin \theta$
 Let $\theta = 23^\circ$
 $\cos(90^\circ - 23^\circ) = \sin 23^\circ$
 $\cos 67^\circ = \sin 23^\circ$
 $\therefore \cos^2 67^\circ = \sin^2 23^\circ$
 $\therefore \cos^2 67^\circ - \sin^2 23^\circ = 0$

2. In an AP, if the common difference $(d) = -4$, and the seventh term (a_7) is 4, then find the first term.

Ans. $a_7 = 4$
 $a + 6d = 4$ (as $a_n = a + (n-1)d$)
 but $d = -4$
 $a + 6(-4) = 4$
 $a + (-24) = 4$
 $a = 4 + 24 = 28$
 Therefore first term $a = 28$

3. Given $\triangle ABC \sim \triangle PQR$, if $\frac{AB}{PQ} = \frac{1}{3}$, then find $\frac{\text{ar } \triangle ABC}{\text{ar } \triangle PQR}$.

Ans. $\frac{A(\triangle ABC)}{A(\triangle PQR)} = \frac{AB^2}{PQ^2}$ (Ratio of area of similar triangle is equal to square of their proportional sides)

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- 2 Pair of Linear Equations in Two Variables Pair of linear equations in two variables and graphical method of their solution consistency inconsistency Algebraic conditions for number of solutions Solution of a pair of linear equations in two variables algebraically by substitution by elimination and by cross multiplication method Simple situational problems Simple problems on equation reducible to linear equations
- 3 Quadratic Equations Standard form of a quadratic equation $ax^2 + bx + c = 0$ $a \neq 0$ Solutions of quadratic equations only real roots by factorization by completing the square and by using quadratic formula Relationship between discriminate and nature of roots Situational problems based on quadratic equations related to day to day activities to be incorporated
- 4 Arithmetic Progressions Motivation for studying Arithmetic Progression Derivation of the n th term and sum of the first n terms of A P

their application in solving daily life problems Unit III Coordinate Geometry 1 Lines In two dimensions Review Concepts of coordinate geometry graphs of linear equations Distance formula Section formula internal division Area of a triangle Unit IV Geometry 1 Triangles Definition examples counter examples of similar triangles 1 Prove If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points the other two sides are divided in the same ratio 2 Motivate If a line divides two sides of a triangle in the same ratio the line is parallel to the third side 3 Motivate If in two triangles the corresponding angles are equal their corresponding sides are proportional and the triangles are similar 4 Motivate If the corresponding sides of two triangles are proportional their corresponding angles are equal and two triangles are similar 5 Motivate If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional the two triangles are similar 6 Motivate If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse the triangles on each side of the perpendicular are similar to the whole triangle and to each other 7 Prove The ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides 8 Prove In a right triangle the square on the hypotenuse is equal to the sum of the squares on the other two sides 9 Prove In a triangle if the square on one side is equal to the sum of the squares on the other two sides the angle opposite to the first side is a right angle 2 Circles Tangent to a circle at point of contact 1 Prove The tangent at any point of a circle is perpendicular to the radius through the point of contact 2 Prove The lengths of tangents drawn from an external point to a circle are equal 3 Constructions 1 Division of a line segment in a given ratio internally 2 Tangents to a circle from a point outside it 3 Construction of a triangle similar to a given triangle Unit V Trigonometry 1 Introduction of Trigonometry Trigonometric ratios of an acute angle of a right angled triangle Proof of their existence well defined motivate the ratios whichever are defined at 0° and 90° Values with proofs of the trigonometric ratios of 30° , 45° and 60° Relationship between the ratios 2 Trigonometric Identities Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$ Only simple identities to be given Trigonometric ratios of complementary angles 3 Heights and Distances Angle of elevation Angle of Depression Simple problems on heights and distances Problems should not involve more than two right triangles Angles of elevation depression should be only 30° , 45° , 60° Unit VI Mensuration 1 Areas Related to Circles Motivate the area of a circle area of sectors and segments of a circle Problems based on area and perimeter circumference of the above said plane figures In calculating area of segment of a circle problems should be restricted to central angle of 60° , 90° and 120° only Plane figures involving triangles simple quadrilaterals and circle should be taken 2 Surface Areas and Volumes 1 Surface areas and volumes of combination of any two of the following cubes cuboids spheres hemispheres and right circular cylinders cones Frustum of a cone 2 Problems involving converting one type of metallic solid into another and other mixed problems Problems with combination of not more than two different solids be taken Unit VII Statistics and Probability 1 Statistics Mean median and mode of grouped data bimodal situation to be avoided cumulative frequency graph 2 Probability Classical definition of probability Simple problems

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