

9th Class

Chapter 1

Exercise 1.4

Q No. 5

(ii)

Math

$$A(BC) = (AB)C$$

Mathematician

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Wenbin Ji



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1 Real Number Euclid's division lemma Fundamental Theorem of Arithmetic statements after reviewing work done earlier and after illustrating and motivating through examples Proofs of irrationality of Decimal representation of rational numbers in terms of terminating non terminating recurring decimals Unit II Algebra 1 Polynomials Zeros of a polynomial Relationship between zeros and coefficients of quadratic polynomials Statement and simple problems on division algorithm for polynomials with real coefficients 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 discriminant 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 sum of the squares on the other two sides the angles 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 on single events not

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Table of Contents Guide Of Abc For Class 9th

1. Understanding the eBook Guide Of Abc For Class 9th
 - The Rise of Digital Reading Guide Of Abc For Class 9th
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide Of Abc For Class 9th
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guide Of Abc For Class 9th
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide Of Abc For Class 9th
 - Personalized Recommendations
 - Guide Of Abc For Class 9th User Reviews and Ratings
 - Guide Of Abc For Class 9th and Bestseller Lists
5. Accessing Guide Of Abc For Class 9th Free and Paid eBooks
 - Guide Of Abc For Class 9th Public Domain eBooks
 - Guide Of Abc For Class 9th eBook Subscription Services
 - Guide Of Abc For Class 9th Budget-Friendly Options
6. Navigating Guide Of Abc For Class 9th eBook Formats

- ePub, PDF, MOBI, and More
- Guide Of Abc For Class 9th Compatibility with Devices
- Guide Of Abc For Class 9th Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Interactive Elements Guide Of Abc For Class 9th
- 8. Staying Engaged with Guide Of Abc For Class 9th
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide Of Abc For Class 9th
- 9. Balancing eBooks and Physical Books Guide Of Abc For Class 9th
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide Of Abc For Class 9th
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guide Of Abc For Class 9th
 - Setting Reading Goals Guide Of Abc For Class 9th
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guide Of Abc For Class 9th
 - Fact-Checking eBook Content of Guide Of Abc For Class 9th
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web jun 8 2019 section 28 1 1 verify repairs check as follows turn ignition off reconnect any electrical connections that were disconnected to perform the diagnosis clear codes with dddl 7 0 or latest version engine exhaust to avoid injury from inhaling engine exhaust always operate the engine in a well ventilated area engine exhaust is toxic

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web jun 8 2019 figure 1 motor control module note do not ground the mcm this can result in false codes being logged the motor control module mcm incorporates a heat exchanger which uses fuel to cool the mcm the top plate of the heat exchanger incorporates the inlet and outlet fitting for fuel supply entering and exiting the heat

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web jun 8 2019 start and bring engine up to operating temperature over 140 f 60 c verify operation is satisfactory and no warning lamps illuminate if warning lamps illuminate troubleshoot the codes if assistance is required call the detroit diesel customer support center at 313 592 5800

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web the motor control module mcm monitors the rail pressure and when rail pressure deviation is greater than 200 bar for eight seconds the mcm sets the code this fault can occur due to the conditions listed below external fuel leakage between the high pressure pump and fuel injectors pressure limiting valve leakage internal

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