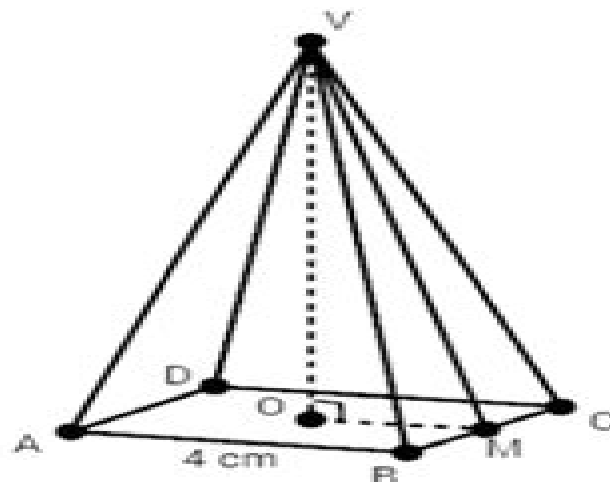


[Maximum mark: 18]



A plastic toy is in the shape of a right pyramid. The pyramid has a square base with the sides 4 cm long. The diagram below represents this pyramid, labelled  $VABCD$ .  $V$  is the vertex of the pyramid.  $O$  is the centre of the base  $ABCD$ .  $M$  is the midpoint of  $BC$ . The angle  $VBC$  is equal to  $75^\circ$ .



- (a) Calculate the length of  $VM$ . [3]
- (b) Calculate the height of the pyramid,  $VO$ . [2]
- (c) Find the volume of the pyramid, in  $\text{cm}^3$ . Give your answer correct to one decimal place. [2]
- (d) Write down your answer to part (c) in the form  $a \times 10^k$ , where  $1 \leq a < 10$  and  $k \in \mathbb{Z}$ . [1]

Another plastic toy is in the shape of a right cone. The height of the cone is equal to the height of the pyramid, and the diameter of the cone's base is equal to 4 cm.

- (e) Determine whether the amount of plastic used to manufacture the pyramid is also enough to manufacture this cone. [4]

After heating, the pyramid deforms in such a way that the angle  $VBC$  decreases by 20%. The side  $VC$  decreases during this deformation, however sides  $VB$  and  $BC$  stay the same.

- (f) Calculate
  - (i) The new distance from the pyramid vertex  $V$  to point  $M$ .
  - (ii) The new area of the pyramid's side  $VBC$ . [6]

# Ib Math HL Questionbank

**Paul Fannon, Vesna Kadelburg, Ben  
Woolley, Stephen Ward**



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 PART 2 FUNCTIONS  
 2 1 Introduction to functions  
 2 2 Linear functions  
 2 3 Quadratic Functions  
 2 4 Transformations  
 2 5 Absolute value functions  
 2 6 Simple Rational functions  
 2 7 Exponential functions  
 2 8 Logarithmic functions  
 2 9 Radical functions  
 2 10 Piecewise functions  
 2 11 Composite functions  
 2 12 Inverse functions  
 PART 3 TRIGONOMETRY  
 3 1 Degrees and Radians  
 3 2 Definition of the Trigonometric functions  
 3 3 Trigonometric Identities  
 3 4 Trigonometric functions  
 3 5 Sine and Cosine Rule  
 3 6 Trigonometric Ratios  
 3 7 Inverse Trigonometric functions  
 3 8 Trigonometric equations  
 3 9 3D geometry

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 1 1 Types of numbers  
 1 2 Interval notation  
 1 3 Rationalization  
 1 4 Exponents and Logarithms  
 1 5 Equations  
 1 6 Equations with absolute value  
 1 7 Polynomials  
 1 8 Binomial Theorem  
 1 9 Sequences and Series  
 1 10 Complex numbers  
 1 11 Mathematical induction

PART 2 FUNCTIONS  
 2 1 Introduction to functions  
 2 2 Linear functions  
 2 3 Quadratic Functions  
 2 4 Transformations  
 2 5 Absolute value functions  
 2 6 Simple Rational functions  
 2 7 Exponential functions  
 2 8 Logarithmic functions  
 2 9 Radical functions  
 2 10 Piecewise functions  
 2 11 Composite functions  
 2 12 Inverse functions

PART 3 TRIGONOMETRY  
 3 1 Degrees and Radians  
 3 2 Definition of the Trigonometric functions  
 3 3 Trigonometric Identities  
 3 4 Trigonometric functions  
 3 5 Sine and Cosine Rule  
 3 6 Trigonometric Ratios  
 3 7 Inverse Trigonometric functions  
 3 8 Trigonometric equations  
 3 9 3D Geometry

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PART 1 CALCULUS1 1 Rate of change1 2 Definition of derivative1 3 Graphing the derivative1 4 Graphing the antiderivative1 5 Tangents and normals to functions1 6 Derivatives1 7 Stationary points1 8 Function analysis 1 9 Indefinite integration1 10 Definite integration1 11 KinematicsPART 2 VECTORS2 1 Vectors2 2 The dot product2 3 The vector product2 4 Lines2 5 Relative positions between lines2 6 Planes2 7 Relative positions between lines and planes2 8 Systems of equations and relative position between planes

PART 3 STATISTICS3 1 Introduction to statistics3 2 Frequency diagrams3 3 Measures of dispersion 3 4 Permutations3 5 Probability3 6 Discrete random variables3 7 Probability density functions3 8 Binomial distribution3 9 Poisson distribution3 10 Normal distribution

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PART 1 ALGEBRA 1 1 Types of numbers 1 2 Interval notation 1 3 Rationalization 1 4 Exponents and Logarithms 1 5 Equations 1 6 Equations with absolute value 1 7 Polynomials 1 8 Binomial Theorem 1 9 Sequences and Series 1 10 Complex numbers 1 11 Mathematical induction

PART 2 FUNCTIONS 2 1 Introduction to functions 2 2 Linear functions 2 3 Quadratic Functions 2 4 Transformations 2 5 Absolute value functions 2 6 Simple Rational functions 2 7 Exponential functions 2 8 Logarithmic functions 2 9 Radical functions 2 10 Piecewise functions 2 11 Composite functions 2 12 Inverse functions

PART 3 TRIGONOMETRY 3 1 Degrees and Radians 3 2 Definition of the Trigonometric functions 3 3 Trigonometric Identities 3 4 Trigonometric functions 3 5 Sine and Cosine Rule 3 6 Trigonometric Ratios 3 7 Inverse Trigonometric functions 3 8 Trigonometric equations3 9 3D Geometry

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## **Table of Contents Ib Math HL Questionbank**

1. Understanding the eBook Ib Math HL Questionbank
  - The Rise of Digital Reading Ib Math HL Questionbank
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math HL Questionbank
  - 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 Ib Math HL Questionbank
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math HL Questionbank
  - Personalized Recommendations
  - Ib Math HL Questionbank User Reviews and Ratings
  - Ib Math HL Questionbank and Bestseller Lists
5. Accessing Ib Math HL Questionbank Free and Paid eBooks



- Ib Math HL Questionbank Public Domain eBooks
- Ib Math HL Questionbank eBook Subscription Services
- Ib Math HL Questionbank Budget-Friendly Options
- 6. Navigating Ib Math HL Questionbank eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Math HL Questionbank Compatibility with Devices
  - Ib Math HL Questionbank Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Math HL Questionbank
  - Highlighting and Note-Taking Ib Math HL Questionbank
  - Interactive Elements Ib Math HL Questionbank
- 8. Staying Engaged with Ib Math HL Questionbank
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Math HL Questionbank
- 9. Balancing eBooks and Physical Books Ib Math HL Questionbank
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Math HL Questionbank
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Math HL Questionbank
  - Setting Reading Goals Ib Math HL Questionbank
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Math HL Questionbank
  - Fact-Checking eBook Content of Ib Math HL Questionbank
  - 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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