

SEE GURU-MANTRA**Compulsory Mathematics****SEE Q.N. 5**
(Mensuration-Pyramid and Cone)

1. The height of a metallic square-based pyramid is 15 cm, and length of base is 16 cm.
- (a) How many triangular surfaces are there in a square based pyramid? [1K]
 (b) Find the height of the triangular faces. [1U]
 (c) Calculate the cost of painting the total surfaces of the pyramid at the rate of Rs. 65 per 100 cm². [2A]

Solution

Here, height of pyramid (h) = 15 cm
 length of base (a) = 16 cm

(a) There are 4 triangular faces in square based pyramid.

(b) We know that,

$$\begin{aligned}
 l &= \sqrt{h^2 + \left(\frac{a}{2}\right)^2} \\
 &= \sqrt{15^2 + \left(\frac{16}{2}\right)^2} \\
 &= 17 \text{ cm}
 \end{aligned}$$

Thus, the height of triangular faces (slant height) is 17 cm.

(c) Here, Rate = Rs. 65 per 100 cm² = Rs. 65 / 100 cm² = Rs. 0.65 / cm²

We know that,

$$\begin{aligned}
 \text{TSA} &= 2al + a^2 \\
 &= 2 \times 16 \times 17 + 16^2 \\
 &= 800 \text{ cm}^2
 \end{aligned}$$

Now,

$$\begin{aligned}
 \text{Cost of painting} &= \text{Rate} \times \text{TSA} \\
 &= \text{Rs. } 0.65 / \text{cm}^2 \times 800 \text{ cm}^2 \\
 &= \text{Rs. } 520
 \end{aligned}$$

Thus, the cost of painting the total surfaces of the pyramid is Rs. 520.



2. The ratio of slant height and a side of base of square based pyramid is 5:6 and its total surface area is 1536 sq. cm.
- (a) Write the relation among base area (A), height (h) and volume (V) of the pyramid. [1K]
 (b) Find the volume of the pyramid. [2U]
 (c) Compare the base area and the area of triangular surfaces. [2HA]

Solution

Here, slant height (l) : side of base (a) = 5:6

Total surface area (TSA) = 1536 cm²

Let l = 5x and a = 6x

(a) The relation among base area (A), height (h) and volume (V) of the pyramid is given by:

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**Ronald L. Graham, Donald E.
Knuth, Oren Patashnik**



Mathematics Conc Appstudmathlab Man:

Concrete Mathematics Ronald L. Graham, Donald E. Knuth, Oren Patashnik, 1994-02-28 This book introduces the mathematics that supports advanced computer programming and the analysis of algorithms The primary aim of its well known authors is to provide a solid and relevant base of mathematical skills the skills needed to solve complex problems to evaluate horrendous sums and to discover subtle patterns in data It is an indispensable text and reference not only for computer scientists the authors themselves rely heavily on it but for serious users of mathematics in virtually every discipline Concrete Mathematics is a blending of CONTinuous and disCRETE mathematics More concretely the authors explain it is the controlled manipulation of mathematical formulas using a collection of techniques for solving problems The subject matter is primarily an expansion of the Mathematical Preliminaries section in Knuth's classic Art of Computer Programming but the style of presentation is more leisurely and individual topics are covered more deeply Several new topics have been added and the most significant ideas have been traced to their historical roots The book includes more than 500 exercises divided into six categories Complete answers are provided for all exercises except research problems making the book particularly valuable for self study Major topics include Sums Recurrences Integer functions Elementary number theory Binomial coefficients Generating functions Discrete probability Asymptotic methods This second edition includes important new material about mechanical summation In response to the widespread use of the first edition as a reference book the bibliography and index have also been expanded and additional nontrivial improvements can be found on almost every page Readers will appreciate the informal style of Concrete Mathematics Particularly enjoyable are the marginal graffiti contributed by students who have taken courses based on this material The authors want to convey not only the importance of the techniques presented but some of the fun in learning and using them

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Table of Contents Mathematics Conc Appstudmathlab Man

1. Understanding the eBook Mathematics Conc Appstudmathlab Man
 - The Rise of Digital Reading Mathematics Conc Appstudmathlab Man
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Conc Appstudmathlab Man
 - 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 Mathematics Conc Appstudmathlab Man
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Conc Appstudmathlab Man

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

- Fact-Checking eBook Content of Mathematics Conc Appstudmathlab Man
 - 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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