## SEE GURU-MANTRA

#### Compulsory Mathematics

#### **SEE Q.N. 5**

#### (Mensuration-Pyramid and Cone)

- 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? IIK
  - (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]

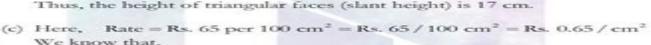
Solution

Here.

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

- (a) There are 4 triangular paces in square based pyramid.
- (b) We know that,

$$1 = \sqrt{h^2 + \left(\frac{a}{2}\right)^2}$$
$$= \sqrt{15^2 + \left(\frac{16}{2}\right)^2}$$
$$= 17 \text{ cm}$$



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

Now.

Cost of painting = Rate 
$$\times$$
 TSA  
= Rs. 0.65 / cm<sup>2</sup>  $\times$  800 cm<sup>2</sup>  
= Rs. 520

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] [2U]
- (b) Find the volume of the pyramid.
- (c) Compare the base area and the area of triangular surfaces.

Solution

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

[2HA]

# **Mathematics Conc Appstudmathlab Man**

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

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through Mathematics Conc Appstudmathlab Man

In a global inundated with screens and the cacophony of quick interaction, the profound energy and emotional resonance of verbal art often disappear in to obscurity, eclipsed by the constant assault of sound and distractions. Yet, nestled within the lyrical pages of **Mathematics Conc Appstudmathlab Man**, a charming work of literary elegance that impulses with natural emotions, lies an memorable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that interesting opus courses readers on an emotional odyssey, delicately revealing the latent potential and profound affect embedded within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect its fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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