



Here, $r_1 = 14 \text{ cm}$, $r_2 = 6 \text{ cm}$ and $h = 6 \text{ cm}$.

Slant height of the frustum, $l = [\sqrt{h^2 + (r_2 - r_1)^2}] = \sqrt{6^2 + (14 - 6)^2} = \sqrt{6^2 + 8^2} = \sqrt{36 + 64} = \sqrt{100} = 10 \text{ cm}$

Curved surface area of frustum $= \pi(r_1 + r_2)l$

$$\begin{aligned} &= 3.14 \times (14 + 6) \times 10 \\ &= 3.14 \times 20 \times 10 \\ &= 628 \text{ cm}^2 \end{aligned}$$

$\therefore$ The curved surface area of frustum is 628 sq. cm

Question 4. Solve the following sub-questions (any two):

[8]

1. In $\triangle ABC$, seg $DE \parallel$ side BC . If $2A(\triangle ADE) = A(\square DBCE)$, find $AB:AD$ and show that $BC = \sqrt{3}DE$.

Explanation:

Given:

In $\triangle ABC$, segment $DE \parallel$ side BC

$$2A(\triangle ADE) = A(DBCE)$$

To Find:

$$BC = \sqrt{3} \times DE$$

Solution:

Since DE is parallel to BC

In $\triangle ADE$ and $\triangle ABC$,

$\angle A$ is common

The corresponding angles of a triangle are equal

$$\therefore \angle ADE = \angle ABC$$

So, $\triangle ADE$ is similar to $\triangle ABC$ by AA similarity criteria.

$$\therefore \frac{AD}{AB} = \frac{DE}{BC} = \frac{AE}{AC} \quad \text{--- (1)}$$

Then,

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JL Elias



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The Publishers' Circular and Booksellers' Record of British and Foreign Literature, 1894 *Substance and Non-substance Addiction* Xiaochu Zhang, Jie Shi, Ran Tao, 2017-11-02 This book focuses on the similarities and differences between substance and non substance addictions It discusses in detail the mechanisms diagnosis and treatment of substance and non substance addictions and addresses selected prospects that will shape future studies on addiction Addiction is a global problem that costs millions of lives tremendous damage year after year There are mainly two types of addition substance addiction e g nicotine alcohol cannabis heroin stimulants etc and non substance addiction e g gambling computer gaming Internet etc Based on existing evidence both types of addiction produce negative impacts on individuals physical mental social and financial well being and share certain common mechanisms which involve a dysfunction of the neural reward system and specific gene transcription factors However there are also key differences between these two types of addiction Covering these aspects systematically the book will provide researchers and graduate students alike a better understanding of drug and behavioral addictions **English Mechanic and Mirror of Science and Art**, 1867 *English Mechanic and World of Science*, 1867 **English Mechanic and Mirror of Science and Arts**, 1867 **Government Reports Announcements**, 1974 *Applied Mechanics Reviews*, 1998 *Comprehensive Chemometrics*, 2009-03-09 Designed to serve as the first point of reference on the subject Comprehensive Chemometrics presents an integrated summary of the present state of chemical and biochemical data analysis and manipulation The work covers all major areas ranging from statistics to data acquisition analysis and applications This major reference work provides broad ranging validated summaries of the major topics in chemometrics with chapter introductions and advanced reviews for each area The level of material is appropriate for graduate students as well as active researchers seeking a ready reference on obtaining and analyzing scientific data Features the contributions of leading experts from 21 countries under the guidance of the Editors in Chief and a team of specialist Section Editors L Buydens D Coomans P Van Espen A De Juan J H Kalivas B K Lavine R Leardi R Phan Tan Luu L A Sarabia and J Trygg Examines the merits and limitations of each technique through practical examples and extensive visuals 368 tables and more than 1 300 illustrations 750 in full color Integrates coverage of chemical and biological methods allowing readers to consider and test a range of techniques Consists of 2 200 pages and more than 90 review articles making it the most comprehensive work of its kind Offers print and online purchase options the latter of which delivers flexibility accessibility and usability through the search tools and other productivity enhancing features of ScienceDirect [Handbook of Research on Computational Intelligence for Engineering, Science, and Business](#) Bhattacharyya, Siddhartha, Dutta, Paramartha, 2012-11-30 Using the same strategy for the needs of image processing and pattern recognition scientists and researchers have turned to computational intelligence for better research throughputs and end results applied towards engineering science business and financial applications Handbook of Research on Computational

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