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

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

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

$$= 3.14 \times (14 + 6) \times 10$$
$$= 3.14 \times 20 \times 10$$
$$= 628\ cm^2$$

∴ 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 $2\ A(\triangle ADE) = A(\square\ DBCE)$, find $AB : AD$ and show that $BC = \sqrt{3}DE$.

Explanation:

Given:
In $\triangle ABC$, segment $DE \parallel$ side BC
$$2\ A(\triangle ADE) = A(DBCE)$$

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.

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

Then,

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G Orfield

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Table of Contents Maths Exam Paper Solutions

1. Understanding the eBook Maths Exam Paper Solutions
    - The Rise of Digital Reading Maths Exam Paper Solutions
    - Advantages of eBooks Over Traditional Books
2. Identifying Maths Exam Paper Solutions
    - 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 Maths Exam Paper Solutions
    - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Exam Paper Solutions
    - Personalized Recommendations
    - Maths Exam Paper Solutions User Reviews and Ratings
    - Maths Exam Paper Solutions and Bestseller Lists
5. Accessing Maths Exam Paper Solutions Free and Paid eBooks
    - Maths Exam Paper Solutions Public Domain eBooks
    - Maths Exam Paper Solutions eBook Subscription Services
    - Maths Exam Paper Solutions Budget-Friendly Options

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

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