



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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G Orfield



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