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

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

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

$$= 3.14 \times (14 + 6) \times 10$$

= $3.14 \times 20 \times 10$
= $628 cm^2$

.. The curved surface area of frustum is 628 sq. cm

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

In △ ABC, seg DE || side BC. If 2 A(△ ADE) = A(□ DBCE), find AB: AD and show that BC = √3DE.

[8]

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 $\triangle ABC$,

∠A is common

The corresponding angles of a triangle are equal

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

So, △ ADE is similar to △ ABC by AA similarity criteria.

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

Then,

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