

SOLID MENSURATION REVIEWER (3rd QUARTER)

LESSON 1 - Frustum of A Cone

What is a **Conical Frustum**?

- ❖ A conical frustum is a frustum created by slicing the top off a cone (with the cut made parallel to the base)

Volume of Conical Frustum

METHOD 1

- Formula:

$$V = \frac{\pi h}{3} (R^2 + Rr + r^2)$$

h = height of the frustum

r = radius of the circular top of the frustum

R = radius of the circular base of the frustum



Total Surface Area of Conical Frustum

- Formula:

Lateral Surface Area:

$$TSA = \pi s (R + r)$$

Circular Surface Area:

$$(Top) \quad CSA = \pi r^2$$

$$(Bottom) \quad CSA = \pi R^2$$

Total Surface Area:

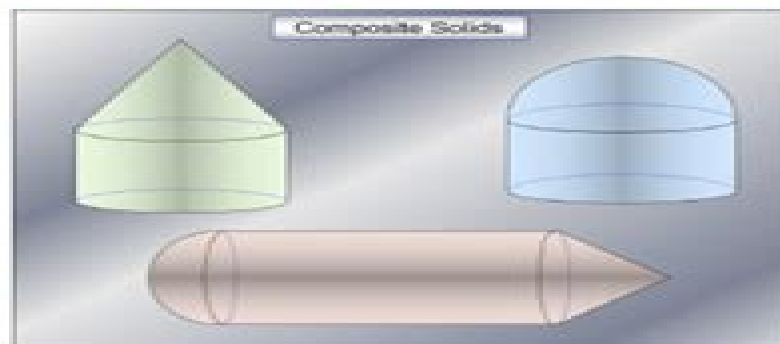
$$TSA = \pi s (R + r) + \pi r^2 + \pi R^2$$

$$= \pi \sqrt{(R - r)^2 + h^2} (R + r) + \pi r^2 + \pi R^2$$



$$s = \sqrt{(R - r)^2 + h^2}$$

LESSON 2 - Composite Solids



Example Question 1 **Composite Solids**

An aeronautical engineer designs a small component part made of copper, that is to be used in the manufacture of an aircraft. The part consists of a cone that sits on top of a cylinder as shown in the diagram below. Find the volume of the part.

Volume of cone = $\frac{1}{3} \pi r^2 h$

$= \frac{1}{3} \pi \times 5 \times 5^2 \times 5$

$= 406 \text{ cm}^3$

$\approx 406 \text{ cm}^3$

Volume of cylinder = $\pi r^2 h$

$= \pi \times 5^2 \times 5$

$= 392.5 \text{ cm}^3$

Total volume = $406 + 392.5 = 798.5 \text{ cm}^3$

$\approx 799 \text{ cm}^3$

Example Question 2 **Composite Solids**

The shape below is composed of a solid metal cylinder capped with a solid metal hemi-sphere as shown. Find the volume of the shape.

Volume of hemi-sphere = $\frac{2}{3} \pi r^3$

$= \frac{2}{3} \pi \times 5^3$

$= 156 \text{ cm}^3$

$\approx 156 \text{ cm}^3$

Volume of cylinder = $\pi r^2 h$

$= \pi \times 5^2 \times 4$

$= 314 \text{ cm}^3$

$\approx 313.64 \text{ cm}^3$

Total volume = $156 + 313.64 = 469.64 \text{ cm}^3$

$\approx 470 \text{ cm}^3$

Example Question 3 **Composite Solids**

A solid shape is composed of a cylinder with a hemi-spherical base and a conical top as shown in the diagram. Calculate the volume of the shape. (answers to 2 sig fig)

Volume of cone = $\frac{1}{3} \pi r^2 h$

$= \frac{1}{3} \pi \times 12^2 \times 14$

$= 844 \text{ cm}^3$

$\approx 844 \text{ cm}^3$

Volume of cylinder = $\pi r^2 h$

$= \pi \times 12^2 \times 40$

$= 1842 \text{ cm}^3$

$\approx 1842 \text{ cm}^3$

Volume of hemi-sphere = $\frac{2}{3} \pi r^3$

$= \frac{2}{3} \pi \times 12^3$

$= 344 \text{ cm}^3$

$\approx 344 \text{ cm}^3$

Total volume = $844 + 1842 + 344 = 3030 \text{ cm}^3$

$\approx 3000 \text{ cm}^3$

LESSON 3 - Non-Euclidean Geometry

What is **Euclidean Geometry**?

- ❖ **Euclidean Geometry** is the geometry that is taught in High School Geometry Classes
- ❖ It is based primarily on a book called "The Elements" written by a Greek

Solid Mensuration Reviewer

RD Boyd



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