



The National
Orthodox School
Shmaisani

Name:

Worksheet(4) volume of pyramids and cones

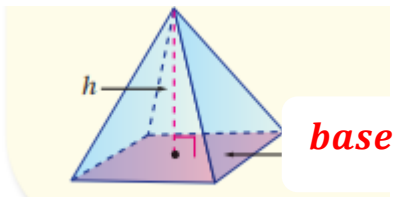
Grade:8(A, B)

Subject : Math (Unit (7):Mensuration of planes and solids)

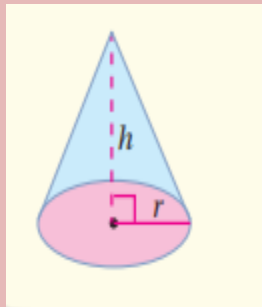
Date :

Objective: Find the volume of pyramids and cones

volume of the pyramid = $\frac{1}{3}$ area of the **base** \times height(h)



volume of the cone = $\frac{1}{3}$ area of the base \times height(h)



$$V = \frac{1}{3} \pi r^2 h$$

Accredited by



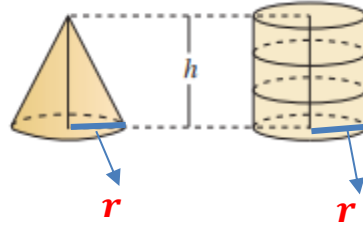
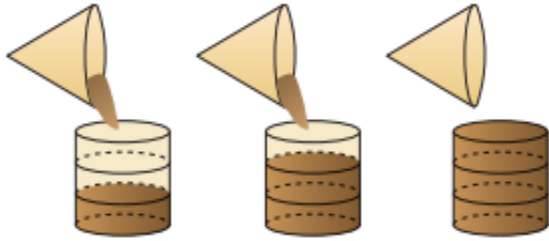
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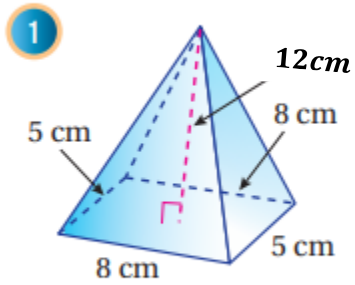
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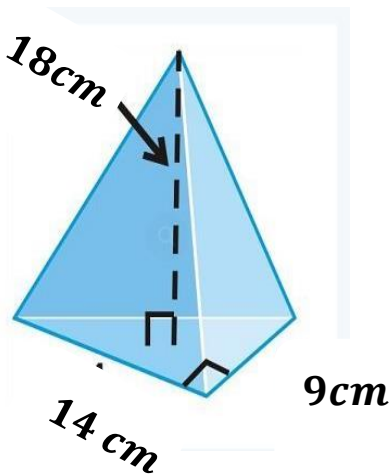
معتمدة من



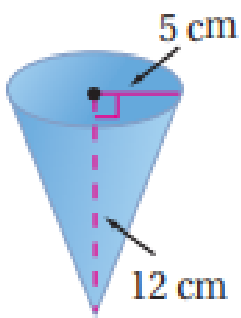
Exercise (1): Find the volume of the following solids:



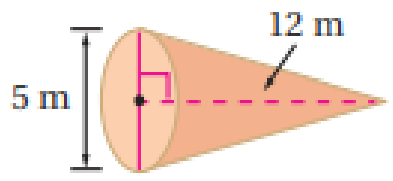
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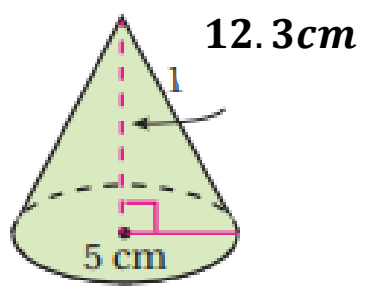
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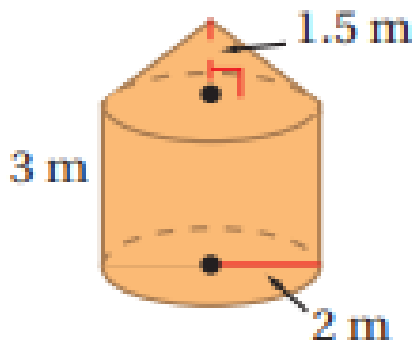
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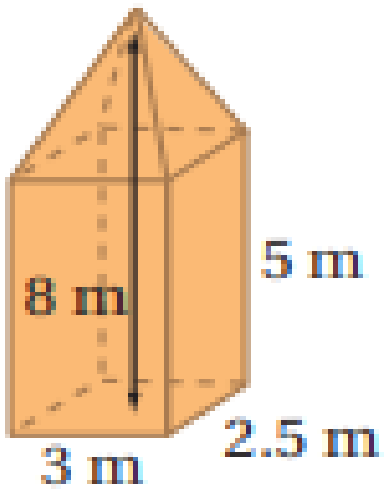
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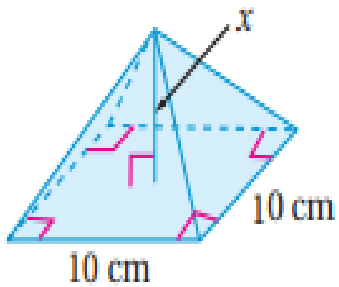
7



Exercise (2): Find the missing dimension in each of the following solids:

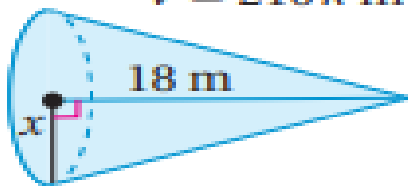
1

$$V = 200 \text{ cm}^3$$



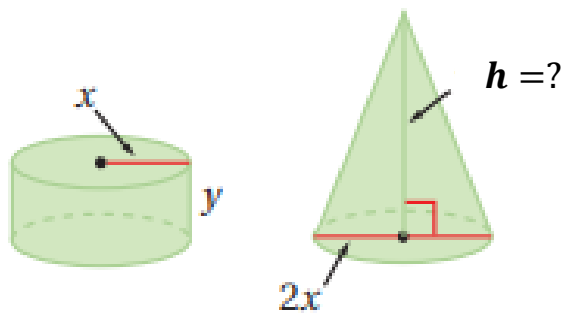
2

$$V = 216\pi \text{ m}^3$$

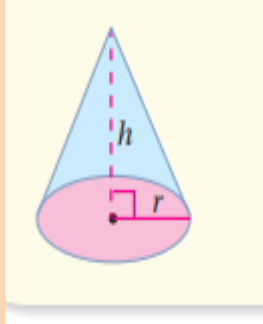


*Exercise (3): The cone and the cylinder shown below have the same volume , find **the height of the cone(h)***

if the height of the cylinder(y) = $2\frac{3}{4}$ cm ?



Exercise (4): The area of the base of the cone shown below is $(314)\text{cm}^2$ and a height (9cm) , find : a) its volume. b) its radius.



Exercise(5): Find the height of a pyramid of volume 20m^3 and base area 12m^2 ?

Teacher: Wisam Al-mashni