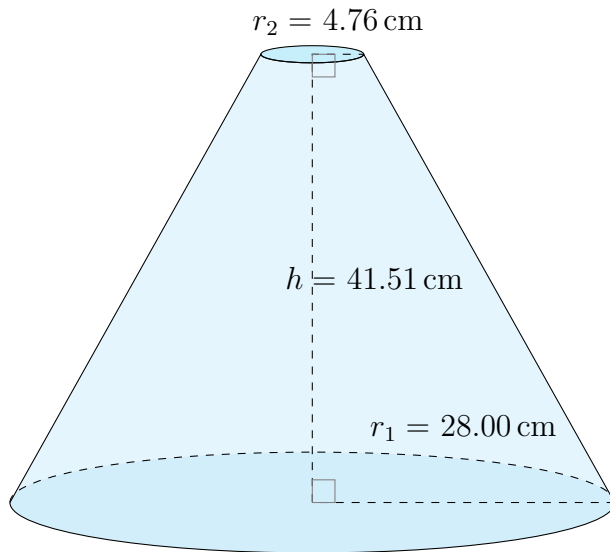


Surface Area and Volume of Conical Frustums (A)

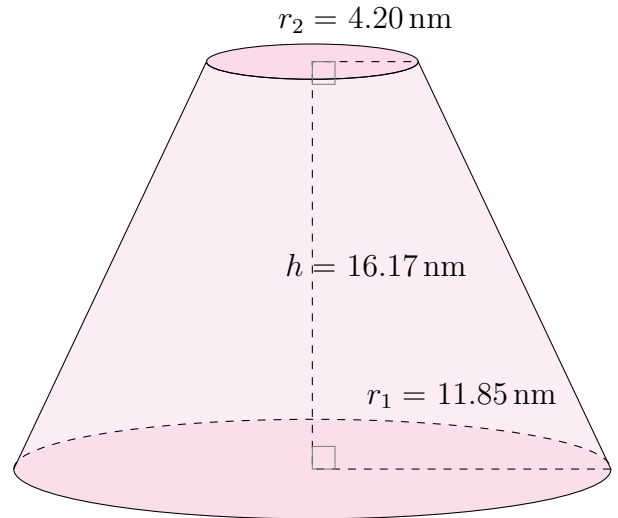
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

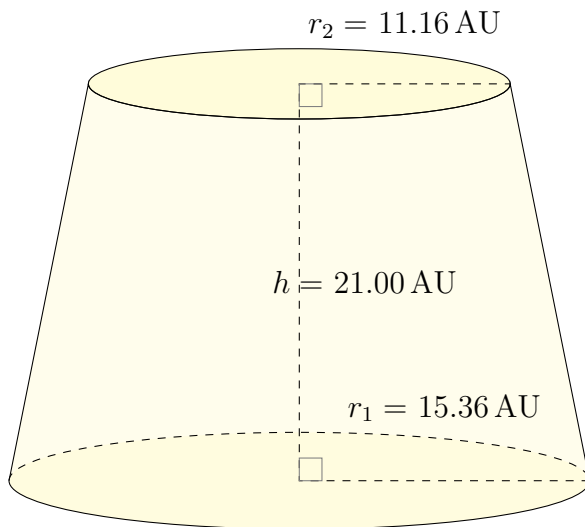
1.



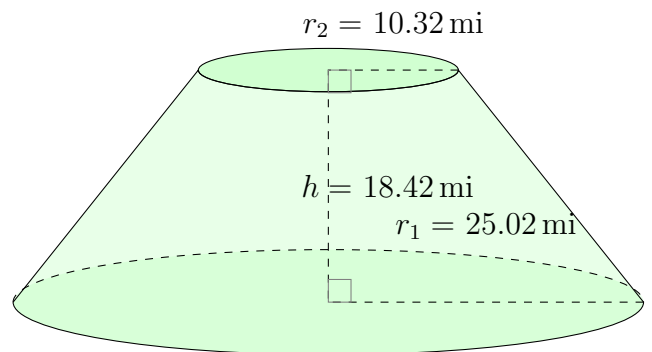
2.



3.



4.

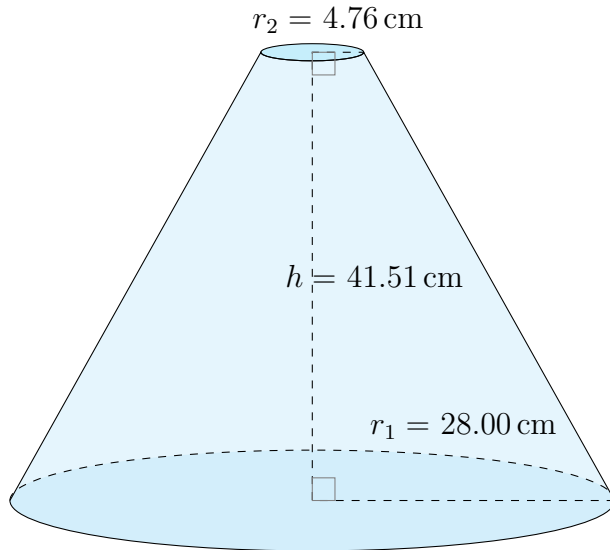


Surface Area and Volume of Conical Frustums (A) Answers

Calculate the surface area and volume for each conical frustum.

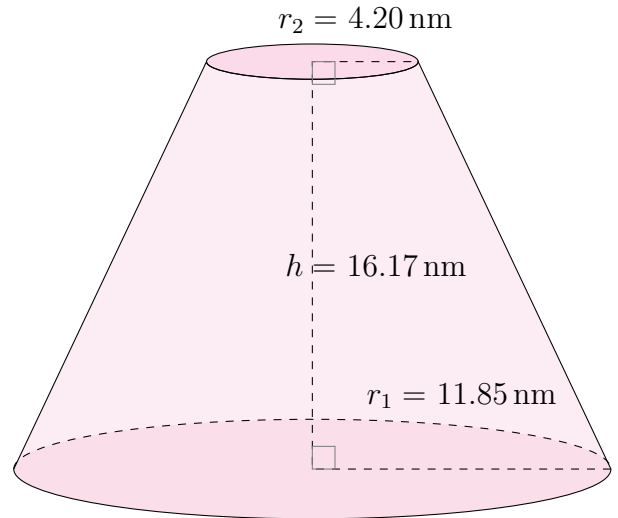
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



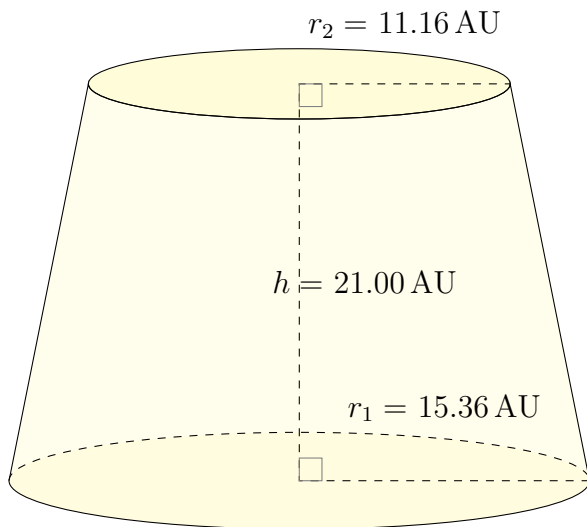
Surface Area: 7430.32 cm^2
Volume: $40,858.31 \text{ cm}^3$

2.



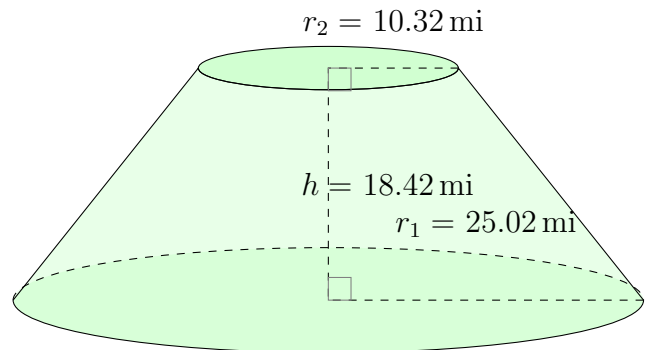
Surface Area: 1398.54 nm^2
Volume: 3519.27 nm^3

3.



Surface Area: 2916.73 AU^2
Volume: $11,696.93 \text{ AU}^3$

4.



Surface Area: 4917.69 mi^2
Volume: $19,110.17 \text{ mi}^3$