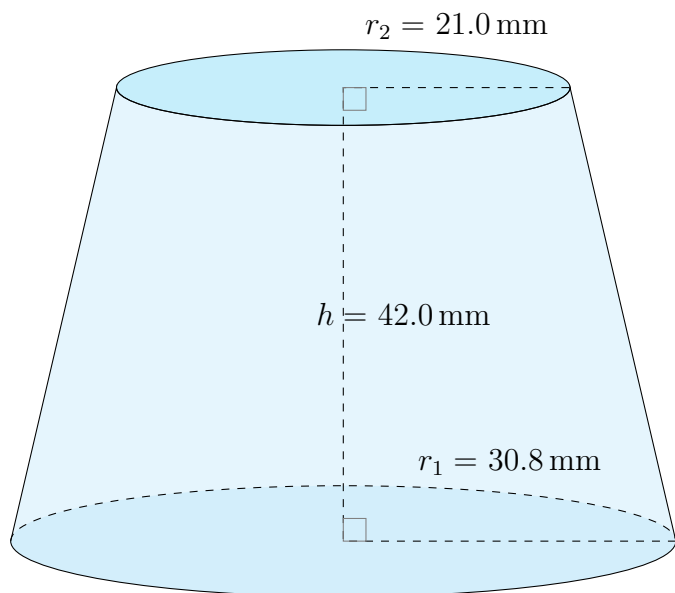


Surface Area and Volume of Conical Frustums (C)

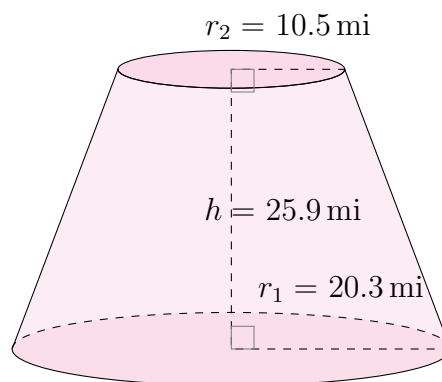
Calculate the surface area and volume for each conical frustum.

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

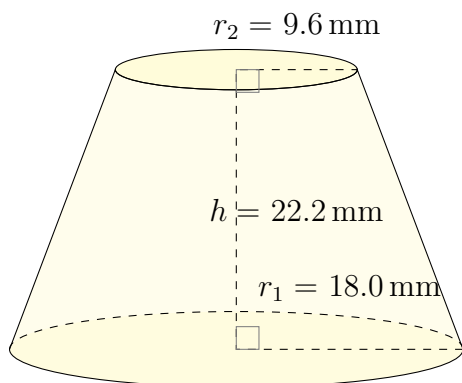
1.



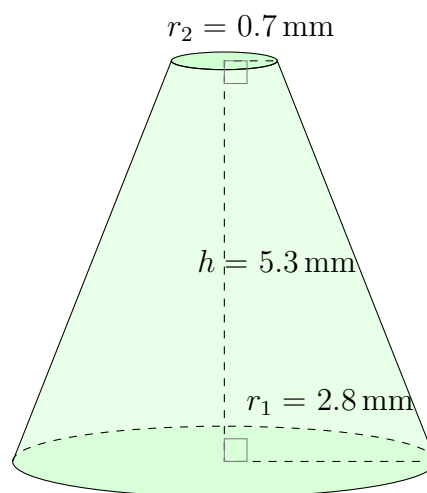
2.



3.



4.

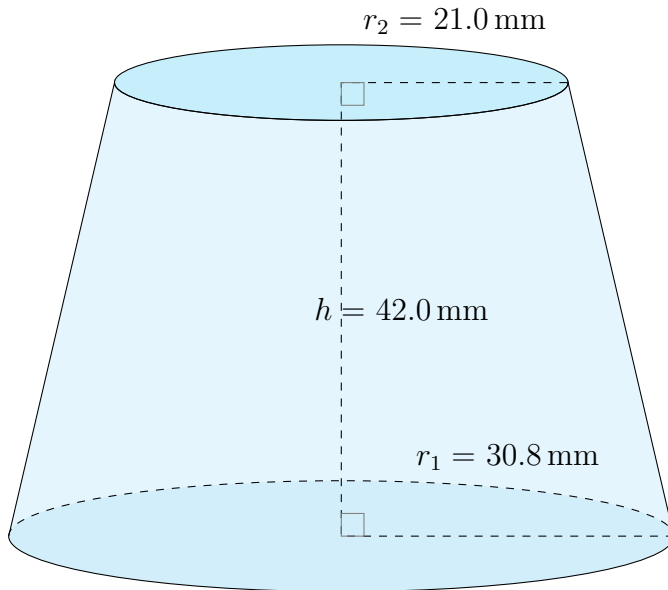


Surface Area and Volume of Conical Frustums (C) Answers

Calculate the surface area and volume for each conical frustum.

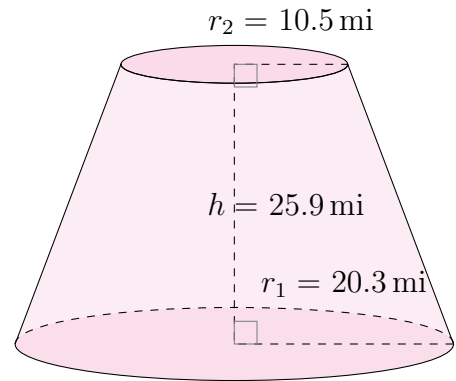
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



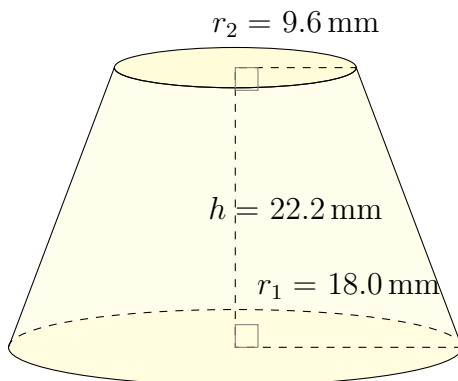
Surface Area: $11,384.1 \text{ mm}^2$
Volume: $89,567.3 \text{ mm}^3$

2.



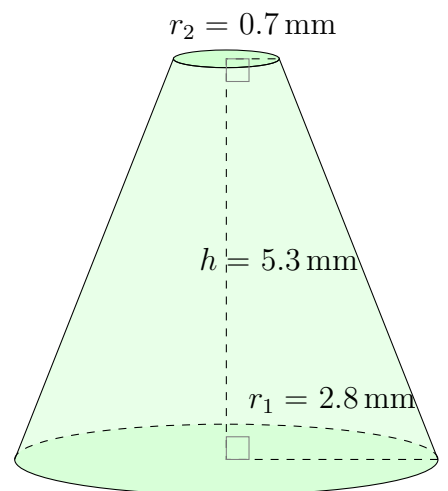
Surface Area: 4320.5 mi^2
Volume: $19,948.3 \text{ mi}^3$

3.



Surface Area: 3365.5 mm^2
Volume: $13,692.0 \text{ mm}^3$

4.



Surface Area: 88.9 mm^2
Volume: 57.1 mm^3