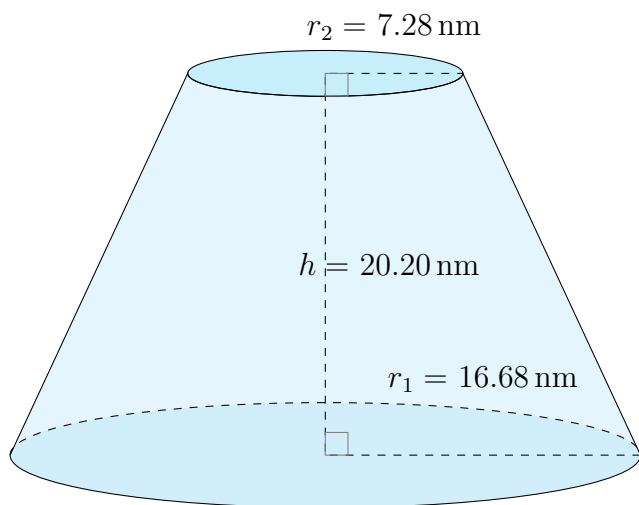


# Surface Area and Volume of Conical Frustums (C)

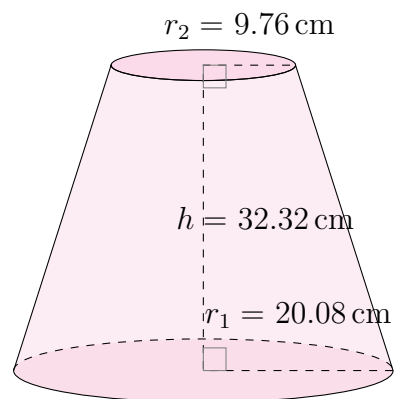
Calculate the surface area and volume for each conical frustum.

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

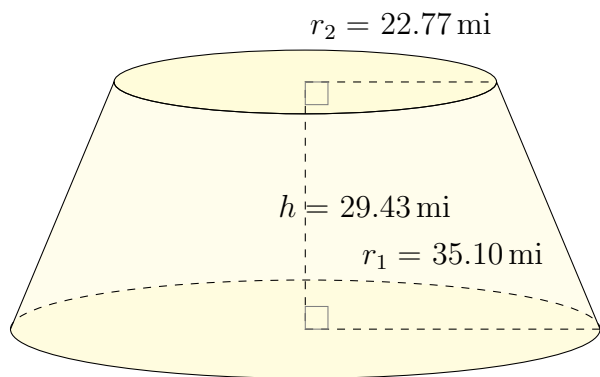
1.



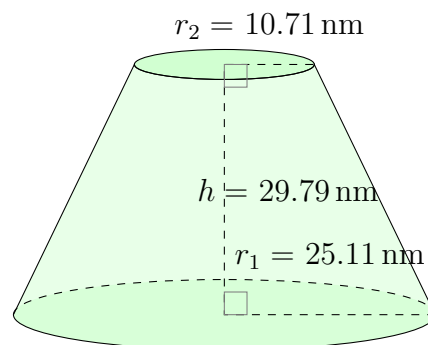
2.



3.



4.

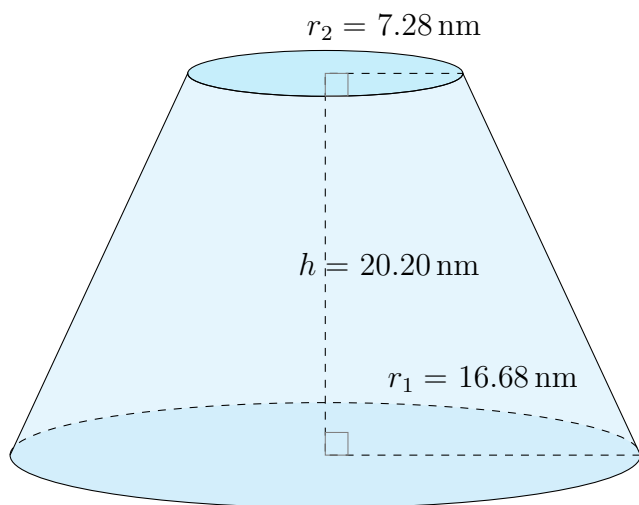


# Surface Area and Volume of Conical Frustums (C) Answers

Calculate the surface area and volume for each conical frustum.

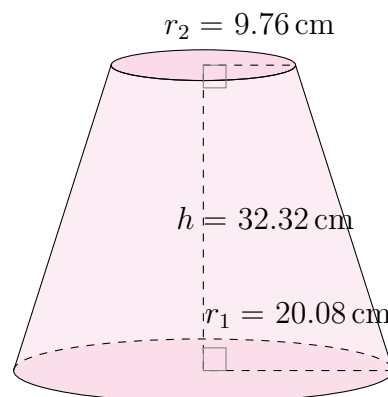
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



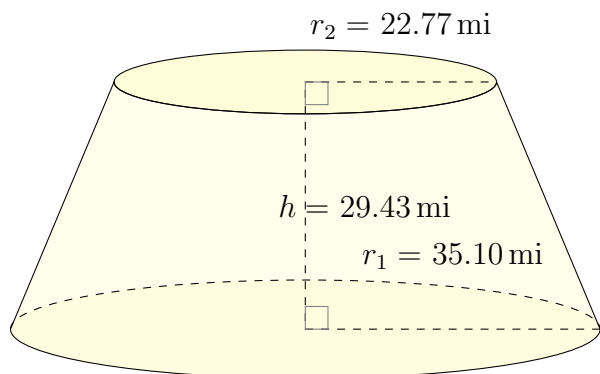
Surface Area: 2717.64 nm<sup>2</sup>  
Volume: 9575.11 nm<sup>3</sup>

2.



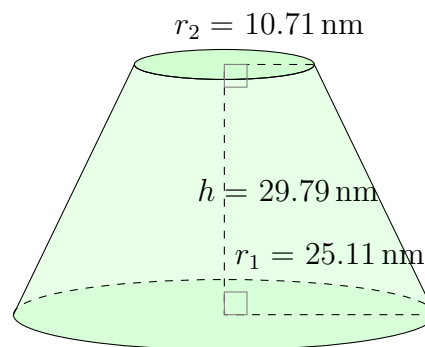
Surface Area: 4746.52 cm<sup>2</sup>  
Volume: 23,503.78 cm<sup>3</sup>

3.



Surface Area: 11,300.40 mi<sup>2</sup>  
Volume: 78,579.57 mi<sup>3</sup>

4.



Surface Area: 6064.60 nm<sup>2</sup>  
Volume: 31,637.26 nm<sup>3</sup>