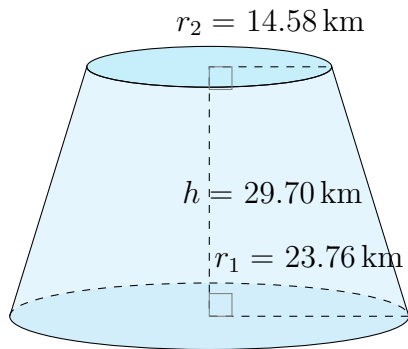


# Surface Area and Volume of Conical Frustums (B)

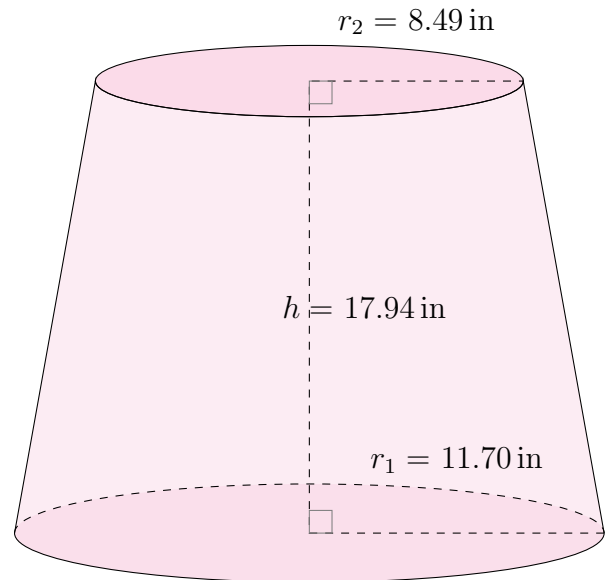
Calculate the surface area and volume for each conical frustum.

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

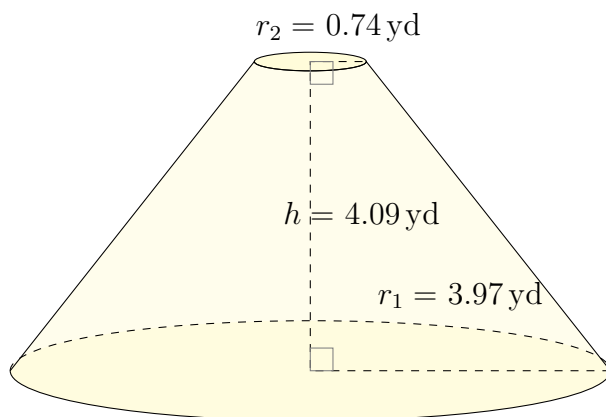
1.



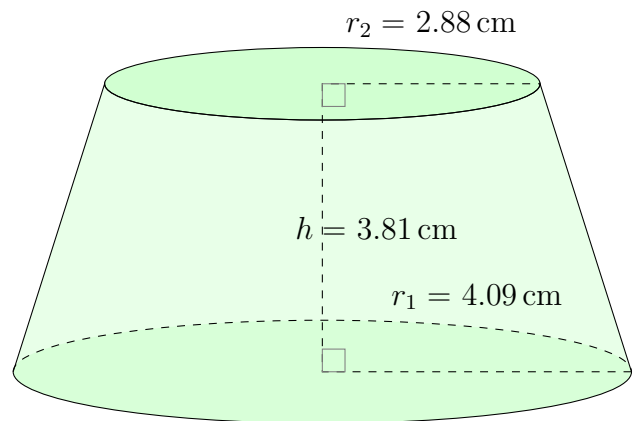
2.



3.



4.

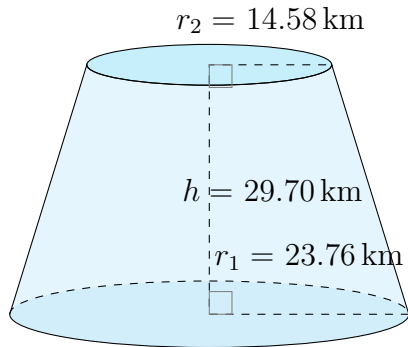


# Surface Area and Volume of Conical Frustums (B) Answers

Calculate the surface area and volume for each conical frustum.

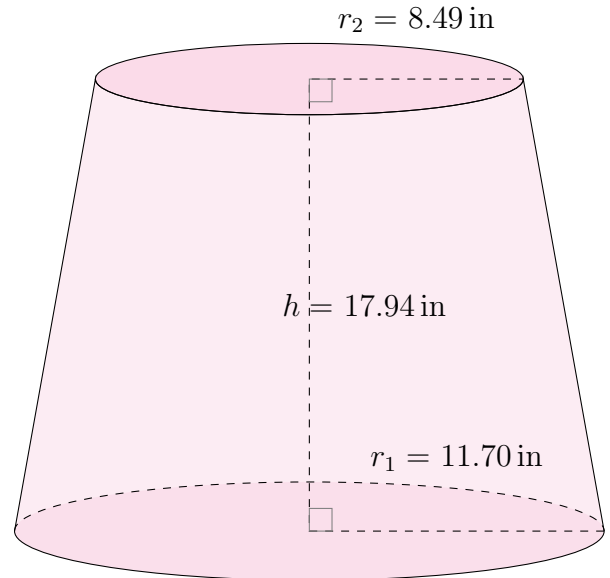
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



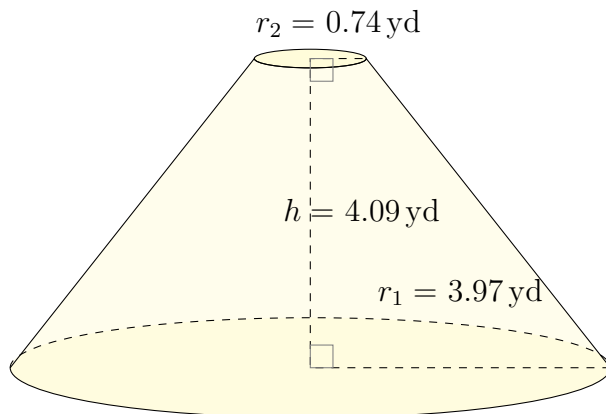
Surface Area:  $6185.69 \text{ km}^2$   
Volume:  $34,943.92 \text{ km}^3$

2.



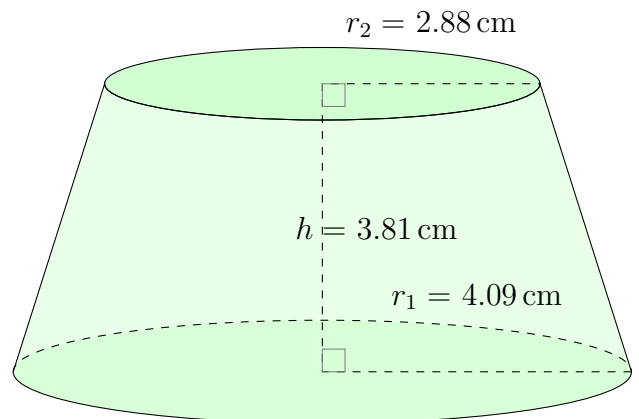
Surface Area:  $1812.48 \text{ in}^2$   
Volume:  $5792.01 \text{ in}^3$

3.



Surface Area:  $128.35 \text{ yd}^2$   
Volume:  $82.43 \text{ yd}^3$

4.



Surface Area:  $166.14 \text{ cm}^2$   
Volume:  $146.83 \text{ cm}^3$