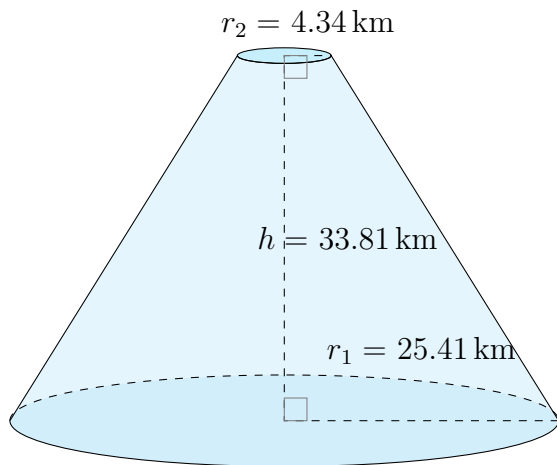


Surface Area and Volume of Conical Frustums (H)

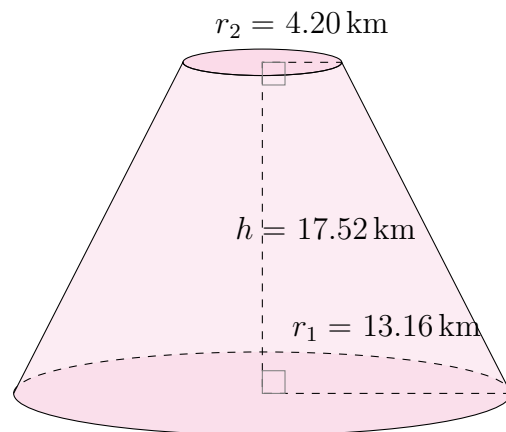
Calculate the surface area and volume for each conical frustum.

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

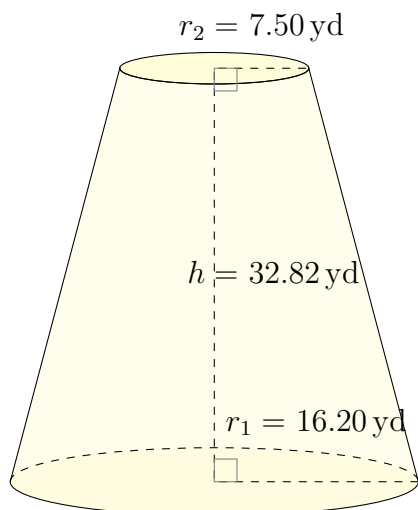
1.



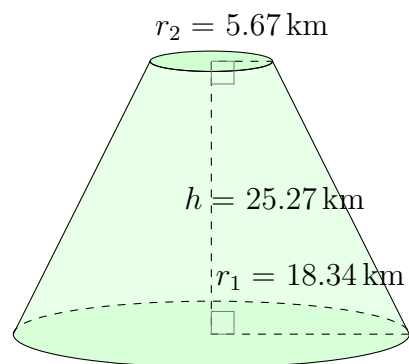
2.



3.



4.

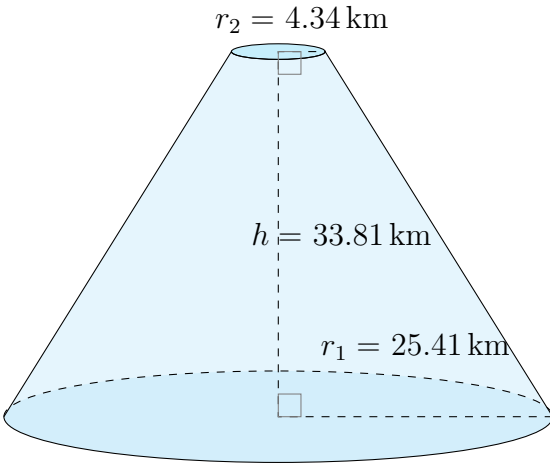


Surface Area and Volume of Conical Frustums (H) Answers

Calculate the surface area and volume for each conical frustum.

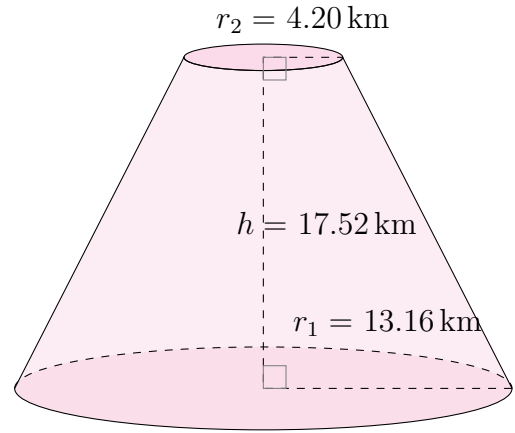
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



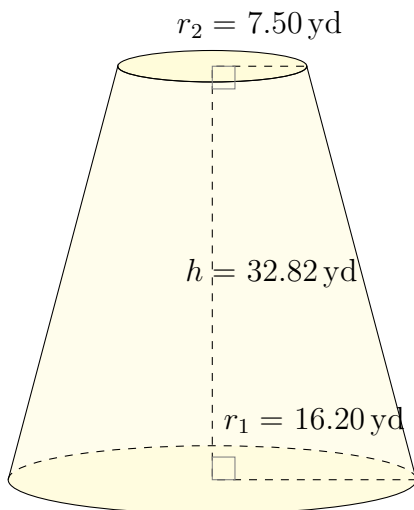
Surface Area: 5810.95 km^2
Volume: $27,431.78 \text{ km}^3$

2.



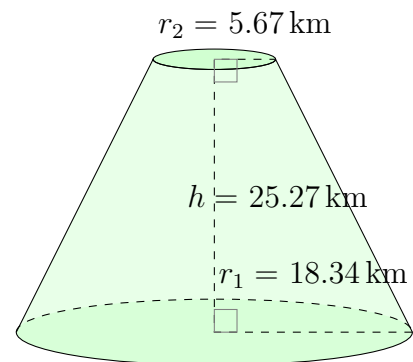
Surface Area: 1672.71 km^2
Volume: 4515.13 km^3

3.



Surface Area: 3529.23 yd^2
Volume: $15,128.90 \text{ yd}^3$

4.



Surface Area: 3289.97 km^2
Volume: $12,503.41 \text{ km}^3$