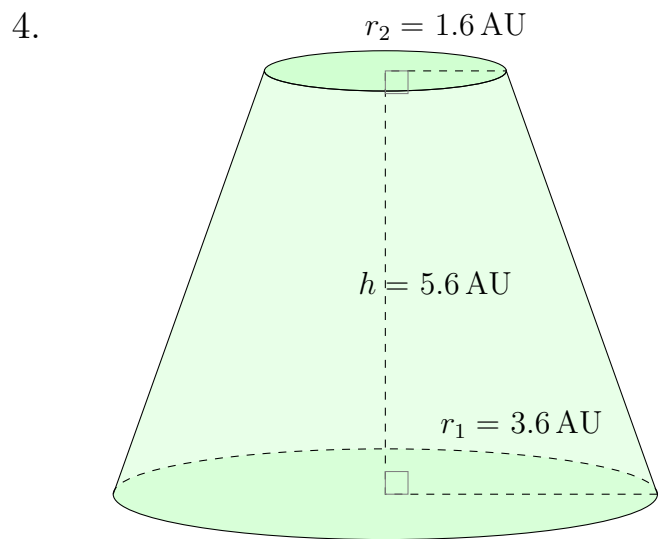
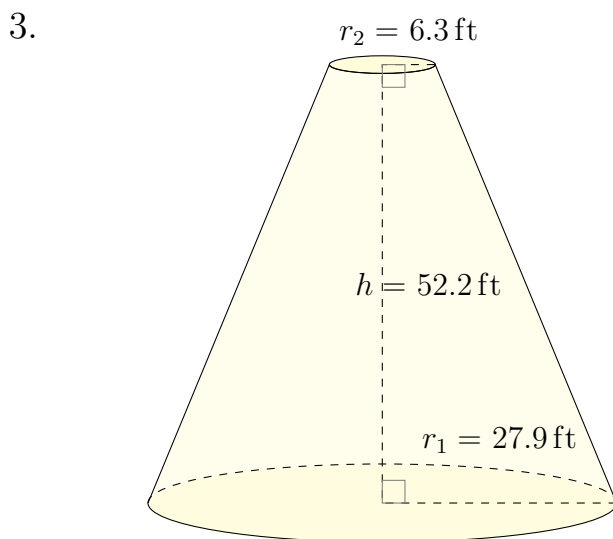
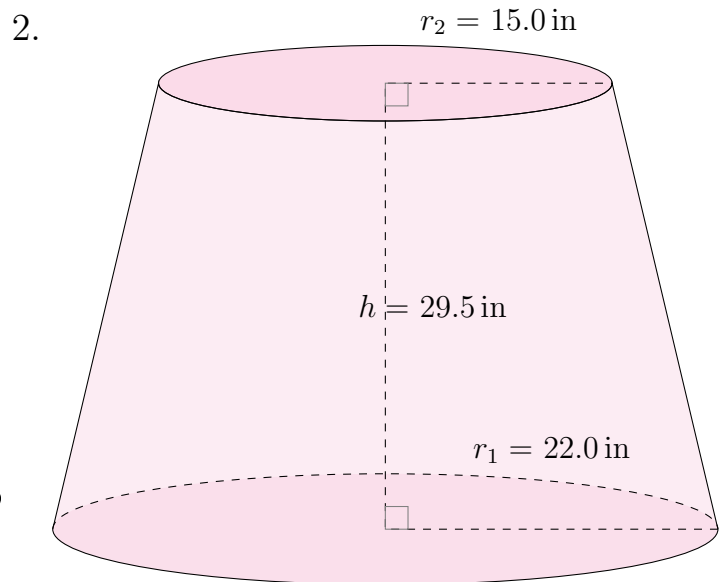
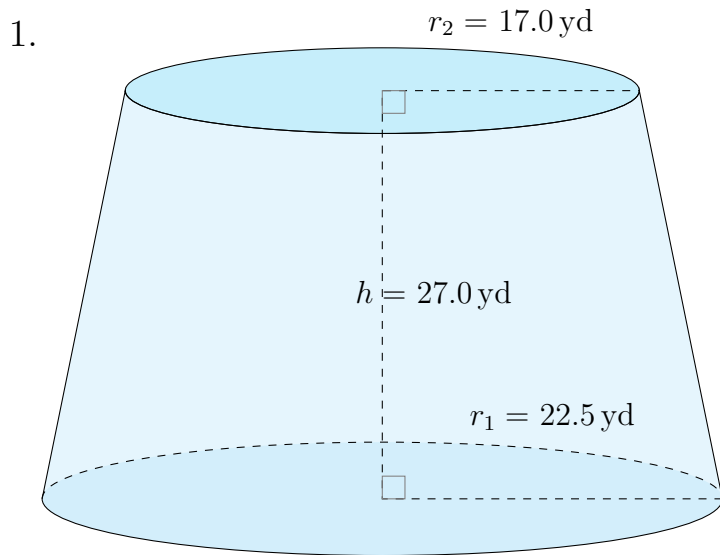


Surface Area and Volume of Conical Frustums (B)

Calculate the surface area and volume for each conical frustum.

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

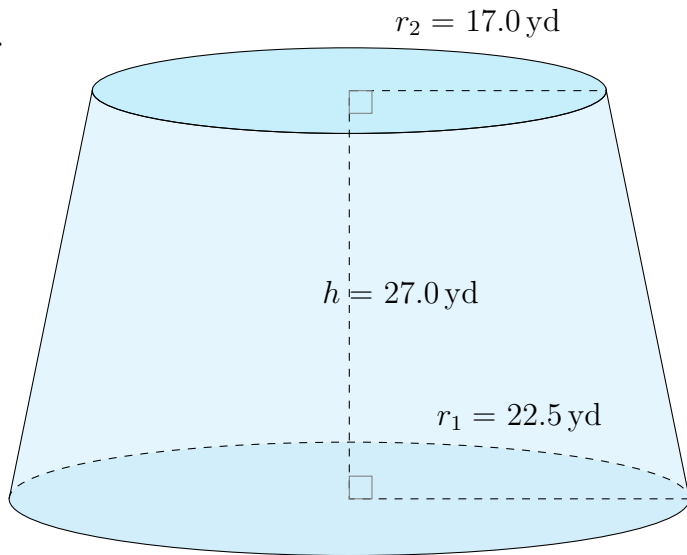


Surface Area and Volume of Conical Frustums (B) Answers

Calculate the surface area and volume for each conical frustum.

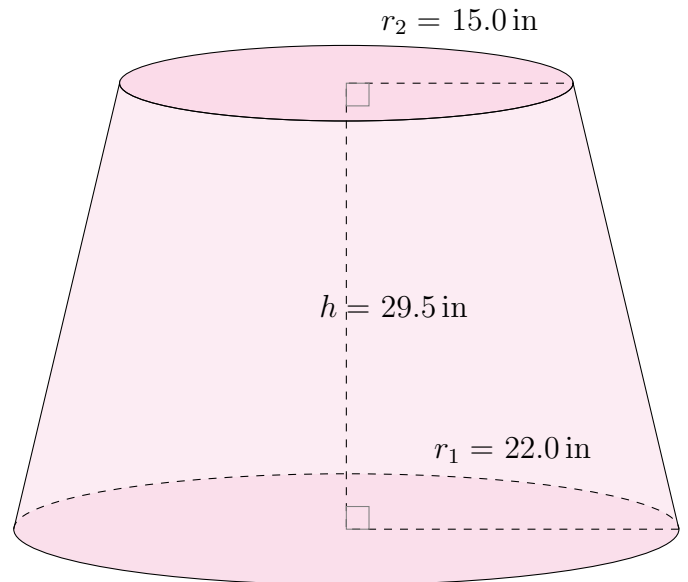
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



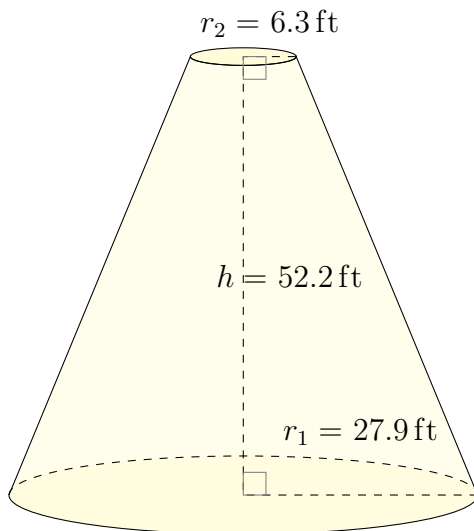
Surface Area: 5917.7 yd²
Volume: 33,300.1 yd³

2.



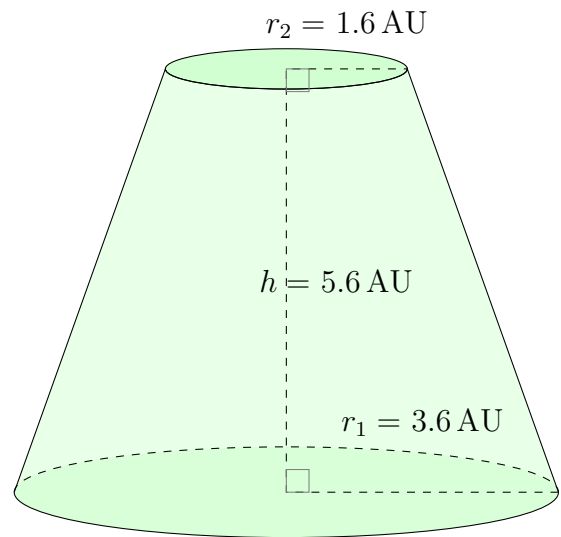
Surface Area: 5751.7 in²
Volume: 32,097.1 in³

3.



Surface Area: 8639.8 ft²
Volume: 54,328.6 ft³

4.



Surface Area: 145.9 AU²
Volume: 124.8 AU³