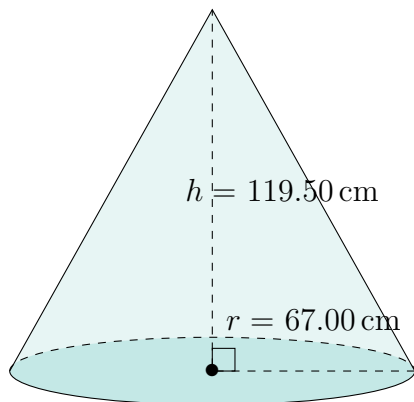


Surface Area and Volume of Cones (H)

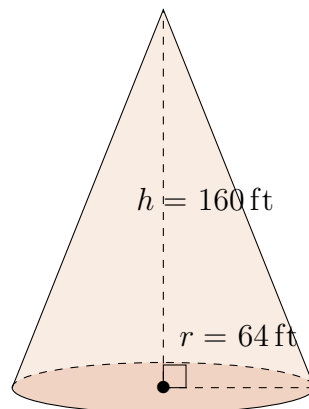
Calculate the surface area and volume for each cone.

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

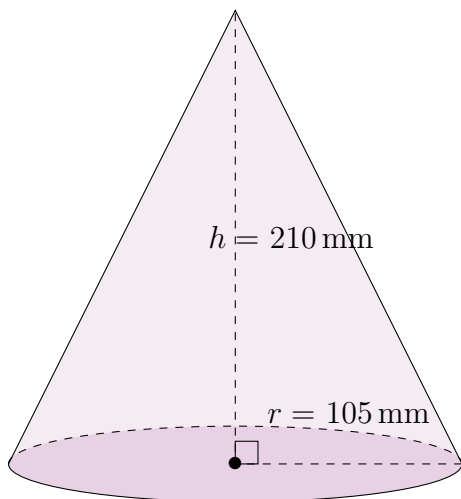
1.



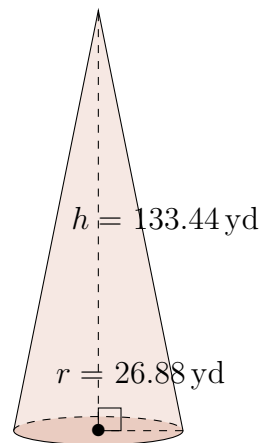
2.



3.



4.

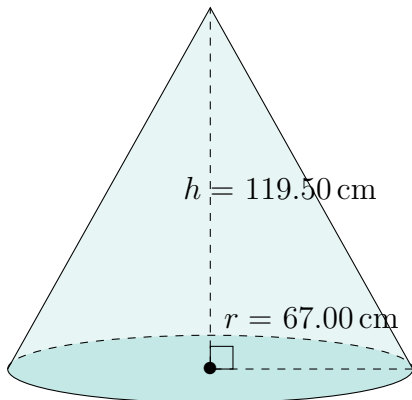


Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

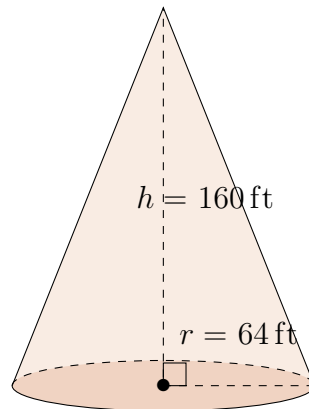
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



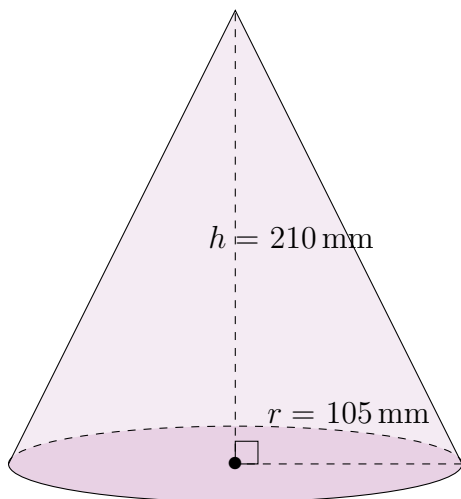
Surface Area: $42,939.48 \text{ cm}^2$
Volume: $561,753.94 \text{ cm}^3$

2.



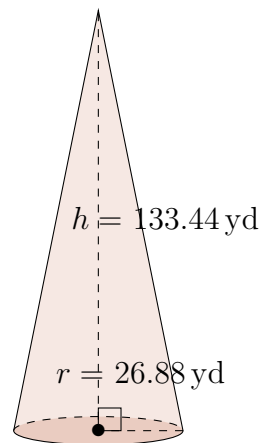
Surface Area: $47,516 \text{ ft}^2$
Volume: $686,291 \text{ ft}^3$

3.



Surface Area: $112,085 \text{ mm}^2$
Volume: $2,424,524 \text{ mm}^3$

4.



Surface Area: $13,764.73 \text{ yd}^2$
Volume: $100,965.54 \text{ yd}^3$