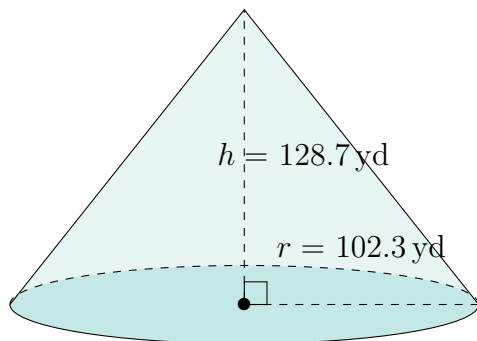


Surface Area and Volume of Cones (A)

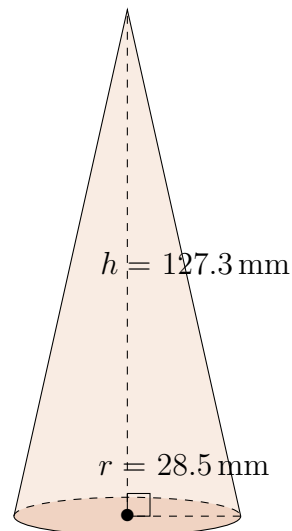
Calculate the surface area and volume for each cone.

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

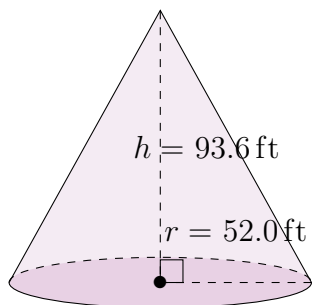
1.



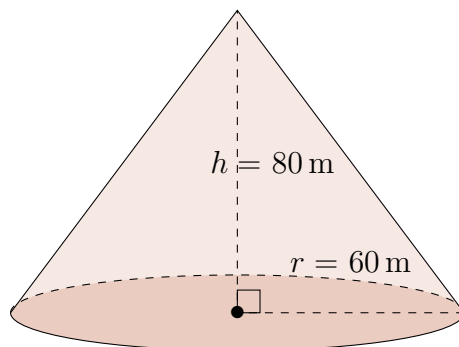
2.



3.



4.

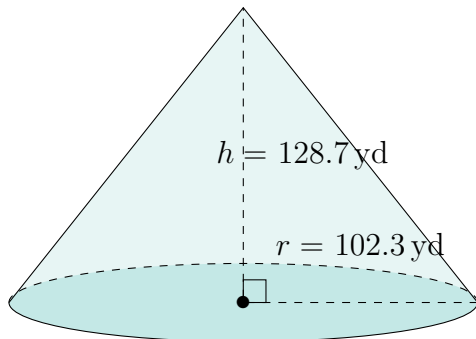


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

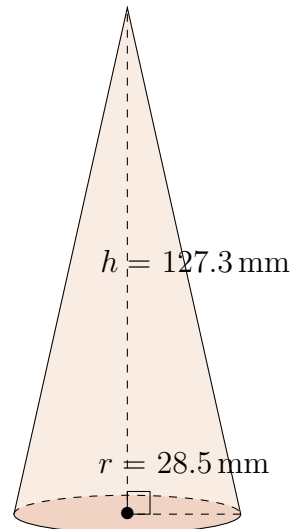
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



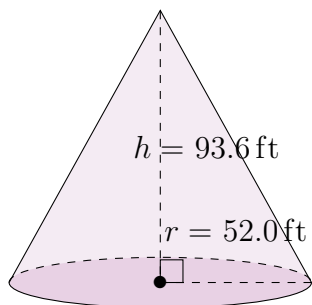
Surface Area: $85,714.9 \text{ yd}^2$
Volume: $1,410,452.4 \text{ yd}^3$

2.



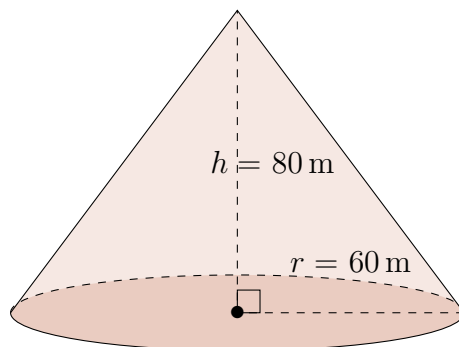
Surface Area: $14,231.8 \text{ mm}^2$
Volume: $108,279.6 \text{ mm}^3$

3.



Surface Area: $25,986.9 \text{ ft}^2$
Volume: $265,039.8 \text{ ft}^3$

4.



Surface Area: $30,159 \text{ m}^2$
Volume: $301,593 \text{ m}^3$