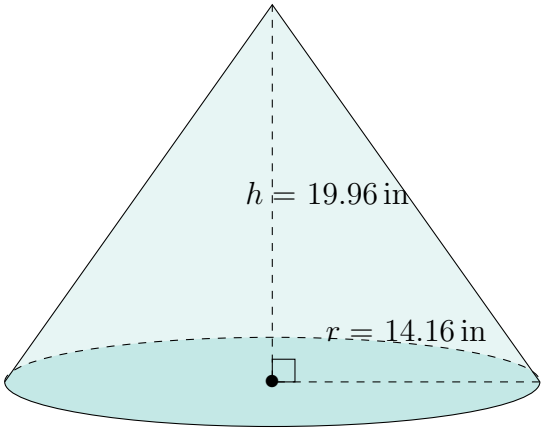
Surface Area and Volume of Cones (E)

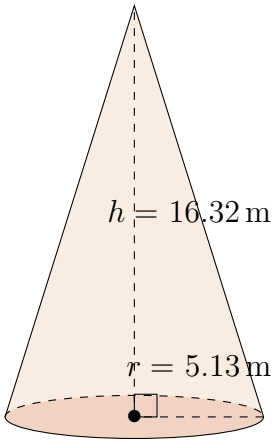
Calculate the surface area and volume for each cone.

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

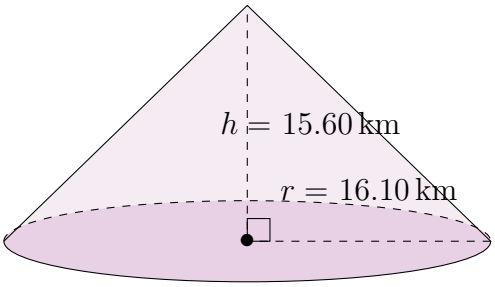
1.



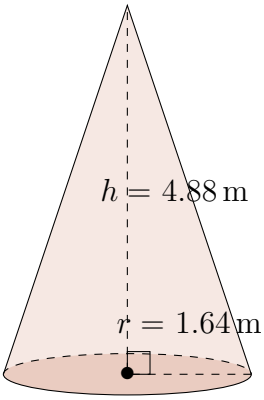
2.



3.



4.

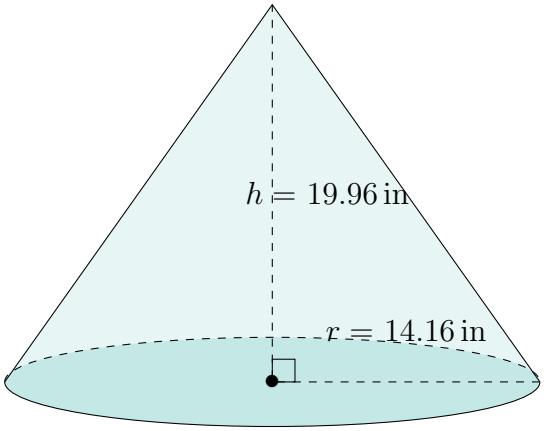


Surface Area and Volume of Cones (E) Answers

Calculate the surface area and volume for each cone.

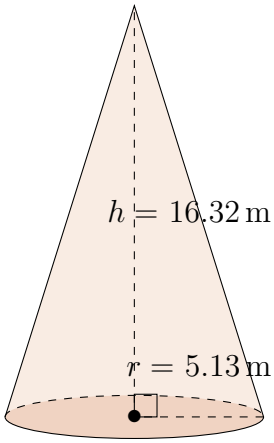
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



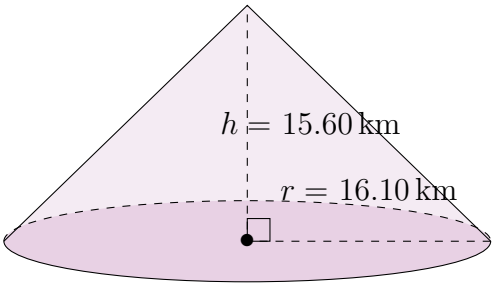
Surface Area: $1718.57\,\text{in}^2$
Volume: $4190.98\,\text{in}^3$

2.



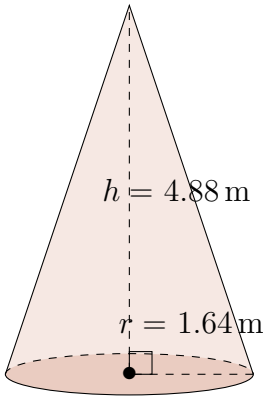
Surface Area: $358.38\,\text{m}^2$
Volume: $449.76\,\text{m}^3$

3.



Surface Area: $1948.23\,\text{km}^2$
Volume: $4234.53\,\text{km}^3$

4.



Surface Area: $34.97\,\text{m}^2$
Volume: $13.74\,\text{m}^3$