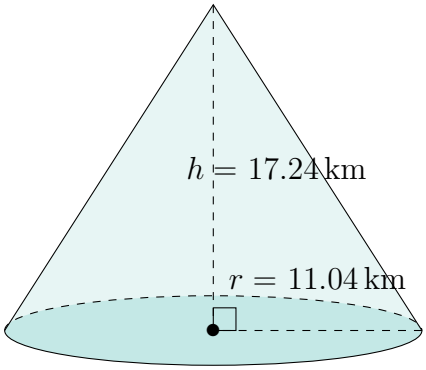
Surface Area and Volume of Cones (J)

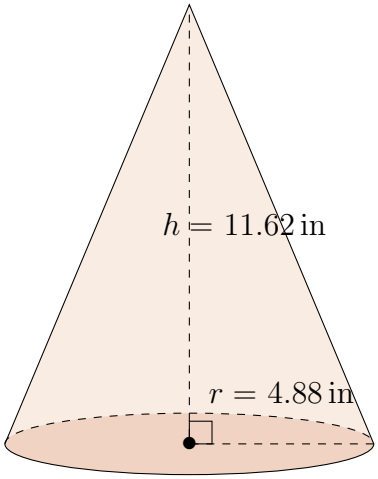
Calculate the surface area and volume for each cone.

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

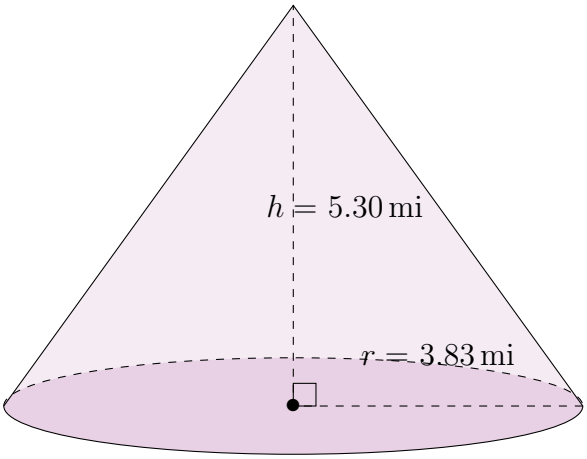
1.



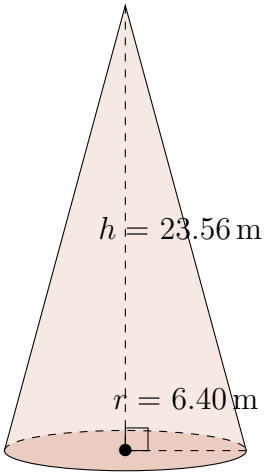
2.



3.



4.

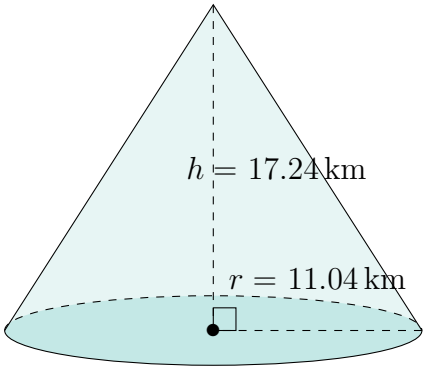


Surface Area and Volume of Cones (J) Answers

Calculate the surface area and volume for each cone.

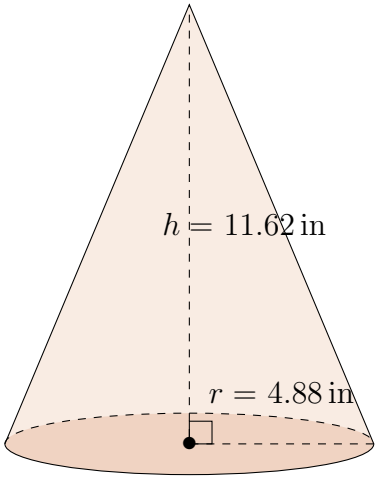
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



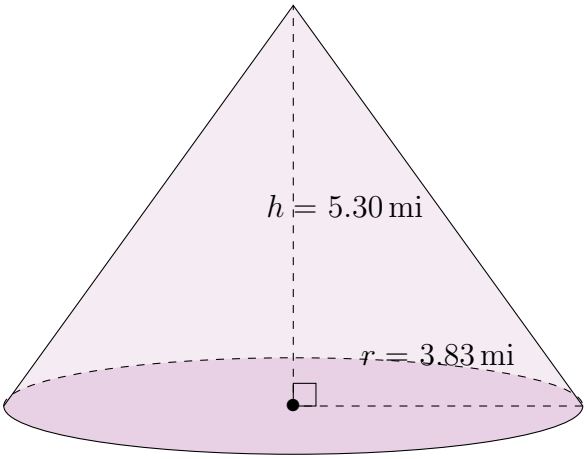
Surface Area: $1092.93\,\text{km}^2$
Volume: $2200.41\,\text{km}^3$

2.



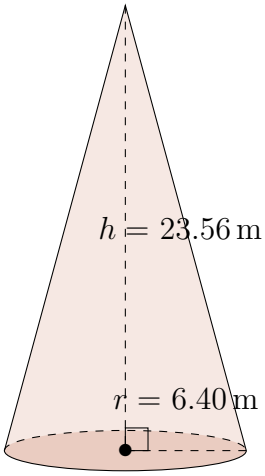
Surface Area: $268.03\,\text{in}^2$
Volume: $289.78\,\text{in}^3$

3.



Surface Area: $124.76\,\text{mi}^2$
Volume: $81.41\,\text{mi}^3$

4.



Surface Area: $619.55\,\text{m}^2$
Volume: $1010.56\,\text{m}^3$