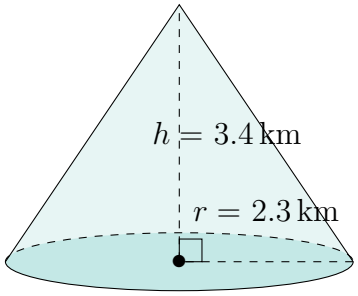
Surface Area and Volume of Cones (G)

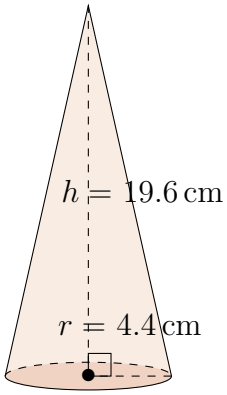
Calculate the surface area and volume for each cone.

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

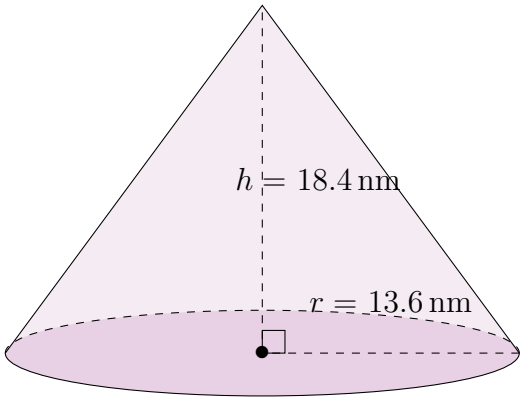
1.



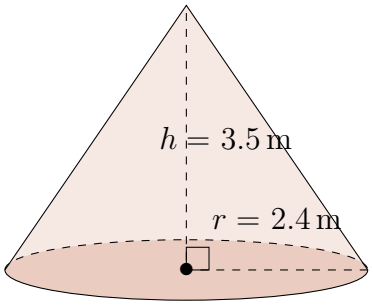
2.



3.



4.

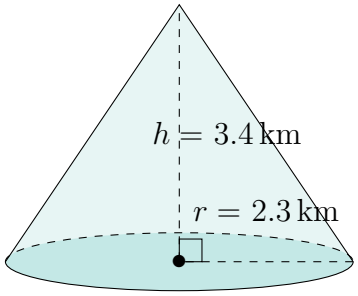


Surface Area and Volume of Cones (G) Answers

Calculate the surface area and volume for each cone.

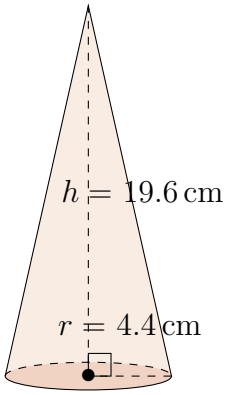
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



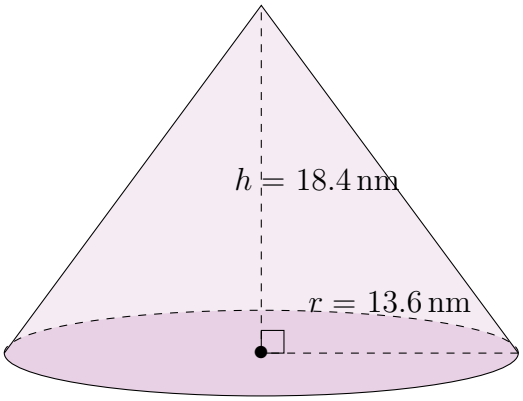
Surface Area: $46.3\,\text{km}^2$
Volume: $18.8\,\text{km}^3$

2.



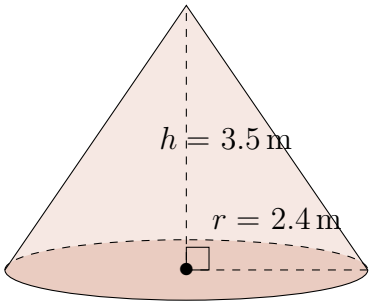
Surface Area: $338.5\,\text{cm}^2$
Volume: $397.4\,\text{cm}^3$

3.



Surface Area: $1558.7\,\text{nm}^2$
Volume: $3563.9\,\text{nm}^3$

4.



Surface Area: $50.1\,\text{m}^2$
Volume: $21.1\,\text{m}^3$