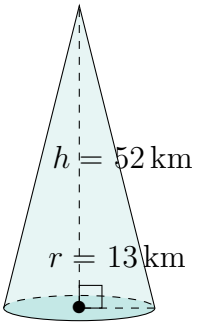
Surface Area and Volume of Cones (A)

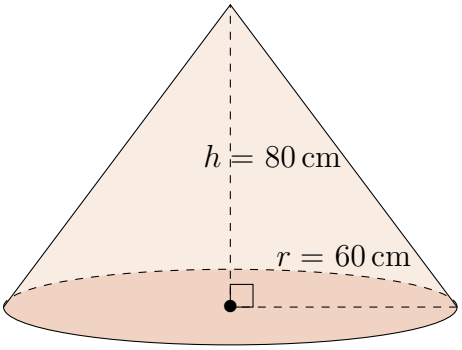
Calculate the surface area and volume for each cone.

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

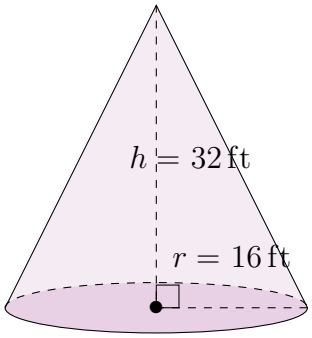
1.



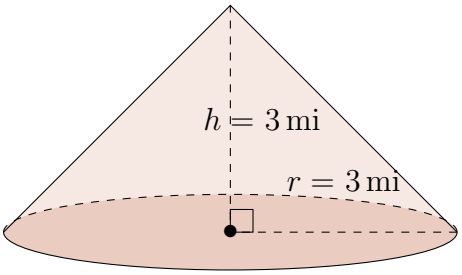
2.



3.



4.

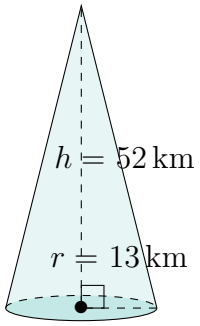


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

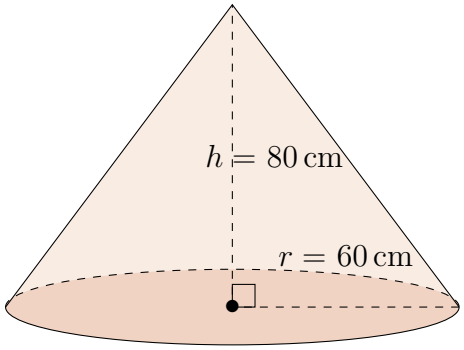
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



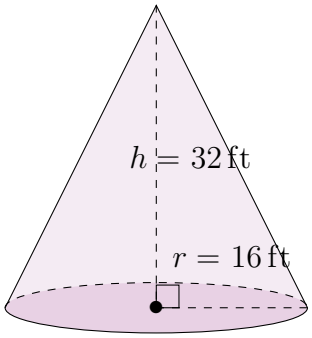
Surface Area: $2720\,\text{km}^2$
Volume: $9203\,\text{km}^3$

2.



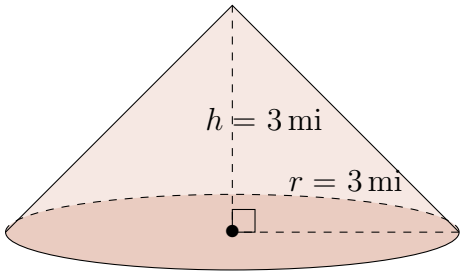
Surface Area: $30{,}159\,\text{cm}^2$
Volume: $301{,}593\,\text{cm}^3$

3.



Surface Area: $2603\,\text{ft}^2$
Volume: $8579\,\text{ft}^3$

4.



Surface Area: $68\,\text{mi}^2$
Volume: $28\,\text{mi}^3$