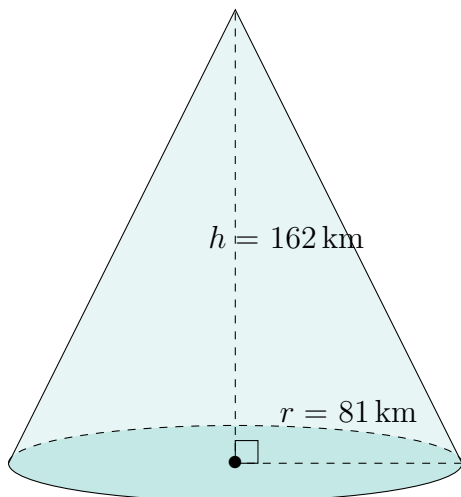


Surface Area and Volume of Cones (J)

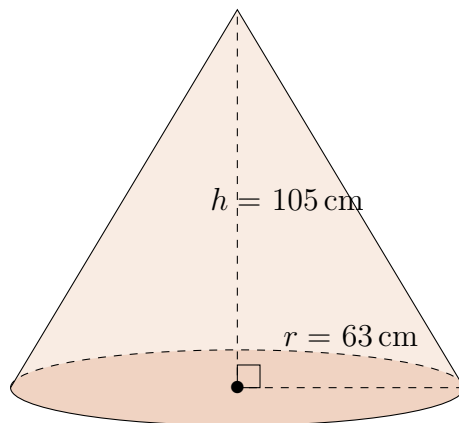
Calculate the surface area and volume for each cone.

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

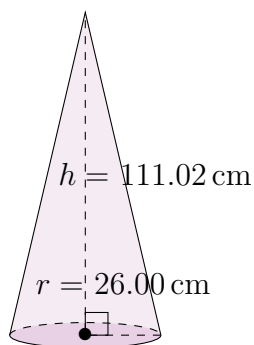
1.



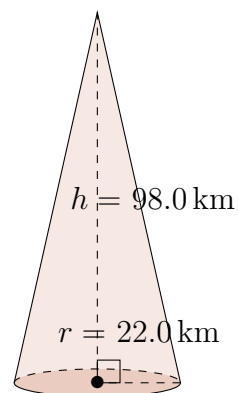
2.



3.



4.

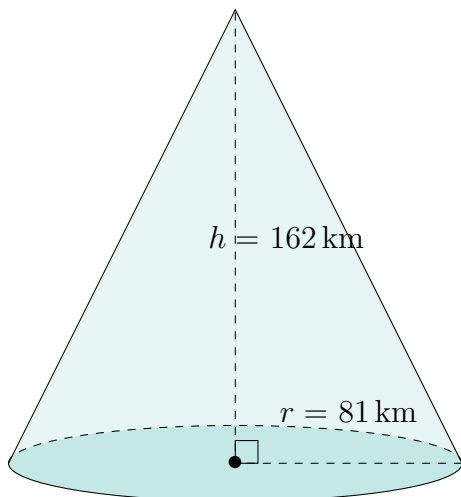


Surface Area and Volume of Cones (J) Answers

Calculate the surface area and volume for each cone.

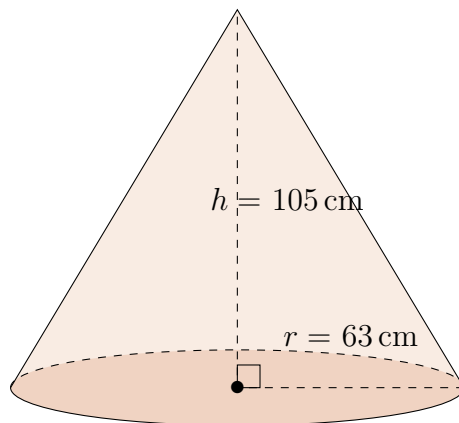
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



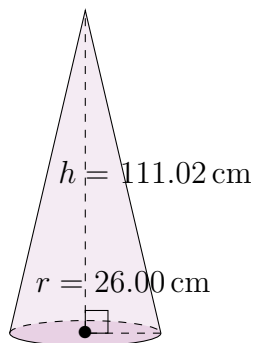
Surface Area: $66,702 \text{ km}^2$
Volume: $1,113,047 \text{ km}^3$

2.



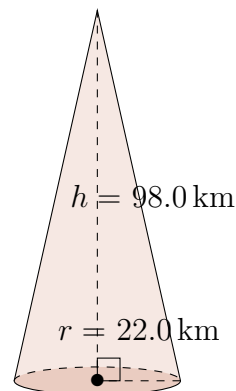
Surface Area: $36,704 \text{ cm}^2$
Volume: $436,414 \text{ cm}^3$

3.



Surface Area: $11,437.35 \text{ cm}^2$
Volume: $78,591.67 \text{ cm}^3$

4.



Surface Area: 8462.4 km^2
Volume: $49,670.7 \text{ km}^3$