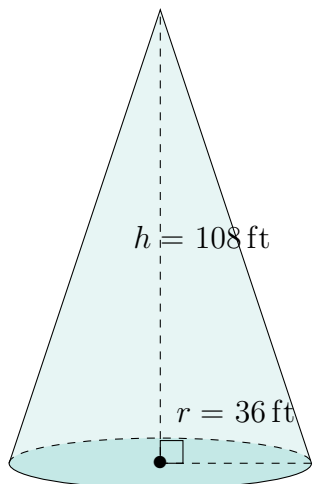


Surface Area and Volume of Cones (I)

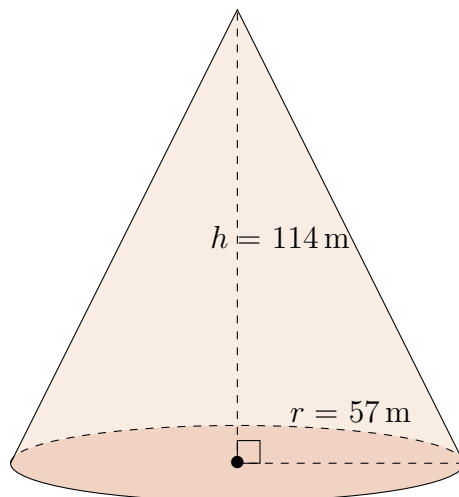
Calculate the surface area and volume for each cone.

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

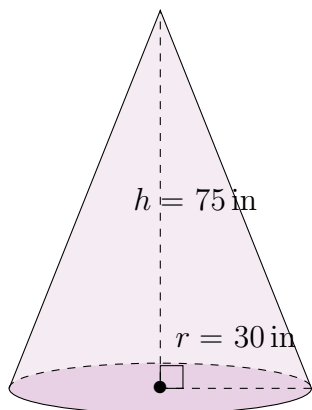
1.



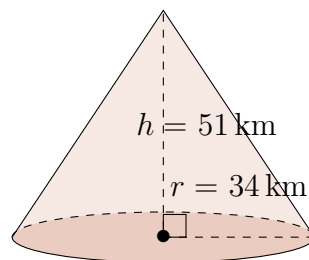
2.



3.



4.

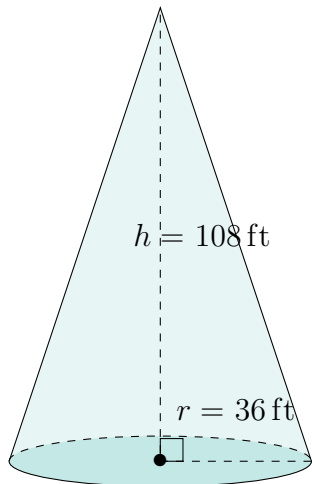


Surface Area and Volume of Cones (I) Answers

Calculate the surface area and volume for each cone.

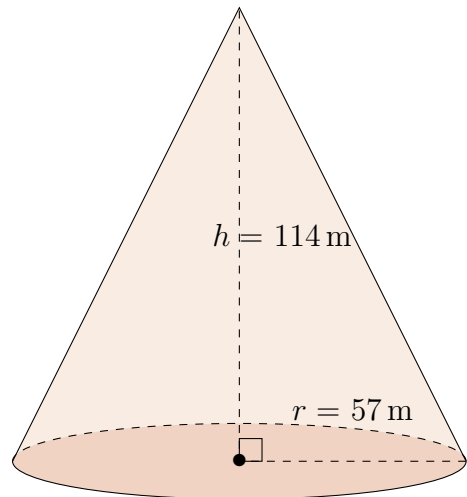
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



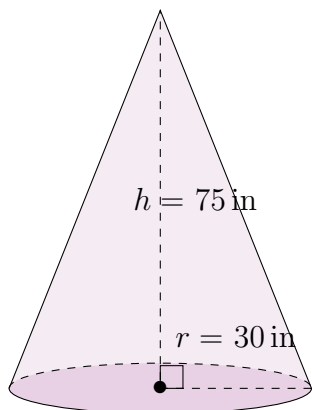
Surface Area: $16,947 \text{ ft}^2$
Volume: $146,574 \text{ ft}^3$

2.



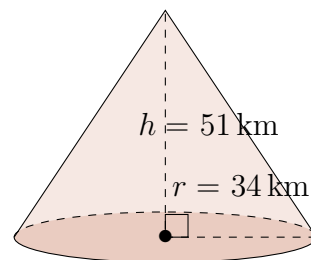
Surface Area: $33,031 \text{ m}^2$
Volume: $387,867 \text{ m}^3$

3.



Surface Area: $10,441 \text{ in}^2$
Volume: $70,686 \text{ in}^3$

4.



Surface Area: $10,179 \text{ km}^2$
Volume: $61,739 \text{ km}^3$