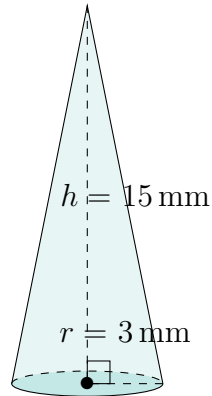


# Surface Area and Volume of Cones (F)

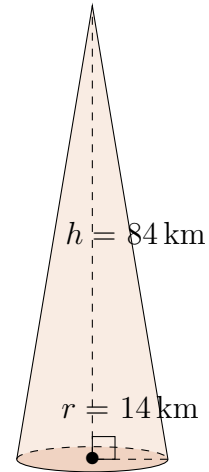
Calculate the surface area and volume for each cone.

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

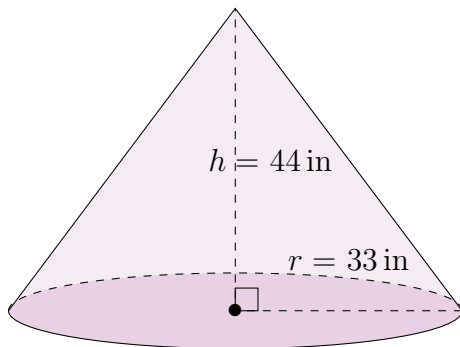
1.



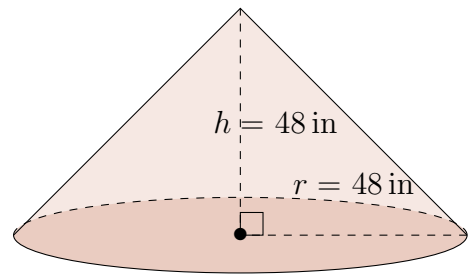
2.



3.



4.

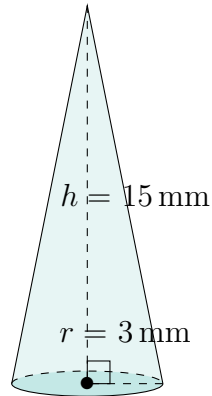


# Surface Area and Volume of Cones (F) Answers

Calculate the surface area and volume for each cone.

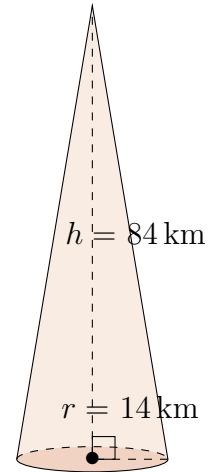
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



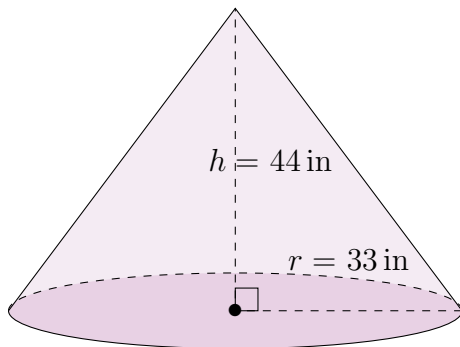
Surface Area:  $172 \text{ mm}^2$   
Volume:  $141 \text{ mm}^3$

2.



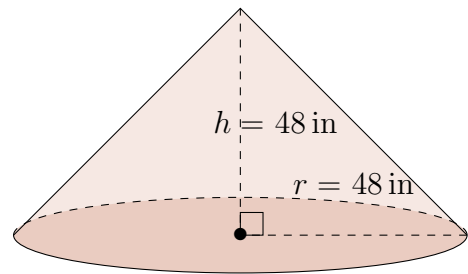
Surface Area:  $4361 \text{ km}^2$   
Volume:  $17,241 \text{ km}^3$

3.



Surface Area:  $9123 \text{ in}^2$   
Volume:  $50,178 \text{ in}^3$

4.



Surface Area:  $17,475 \text{ in}^2$   
Volume:  $115,812 \text{ in}^3$