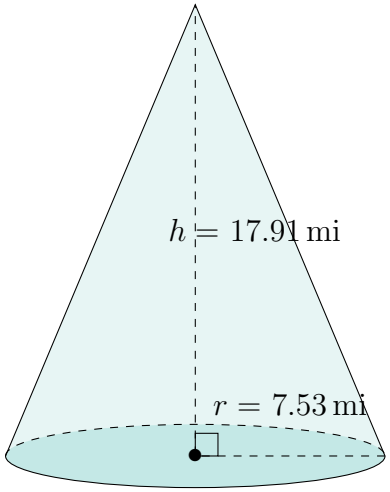
Surface Area and Volume of Cones (A)

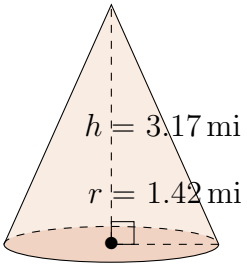
Calculate the surface area and volume for each cone.

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

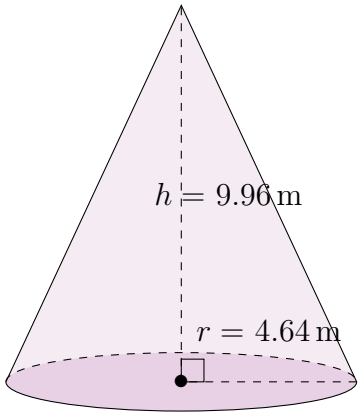
1.



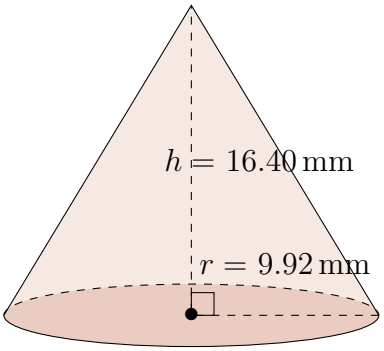
2.



3.



4.

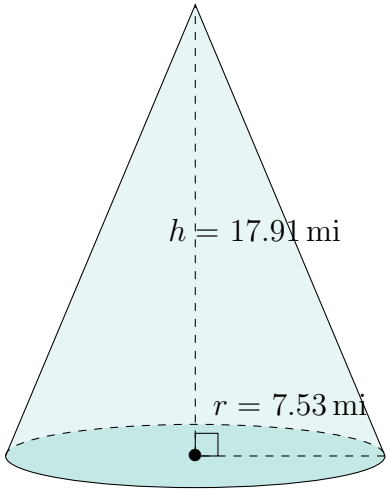


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

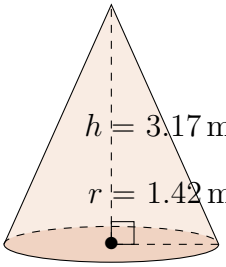
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



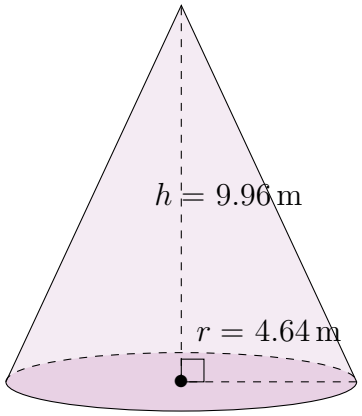
Surface Area: 637.74 mi^2
Volume: 1063.44 mi^3

2.



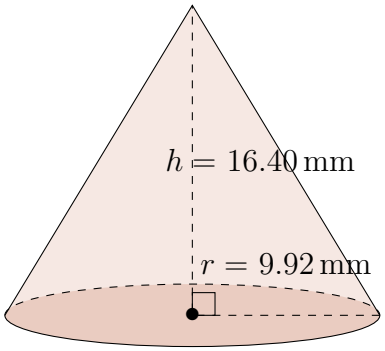
Surface Area: 21.83 mi^2
Volume: 6.69 mi^3

3.



Surface Area: 227.81 m^2
Volume: 224.56 m^3

4.



Surface Area: 906.48 mm^2
Volume: 1690.04 mm^3