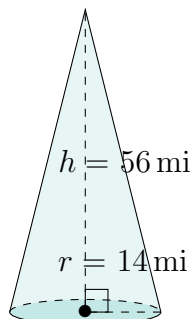


Surface Area and Volume of Cones (C)

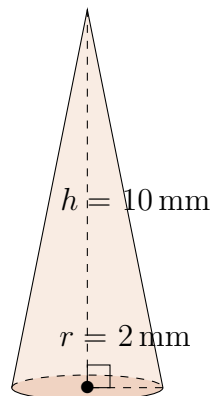
Calculate the surface area and volume for each cone.

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

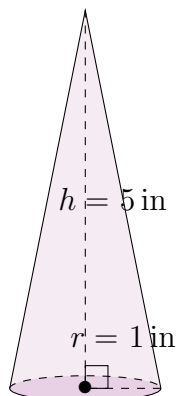
1.



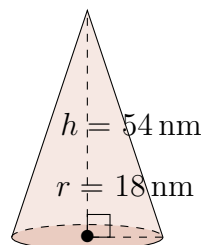
2.



3.



4.

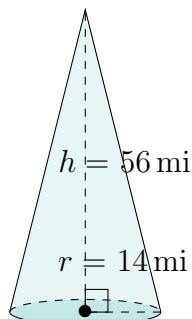


Surface Area and Volume of Cones (C) Answers

Calculate the surface area and volume for each cone.

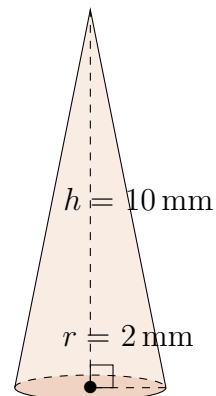
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



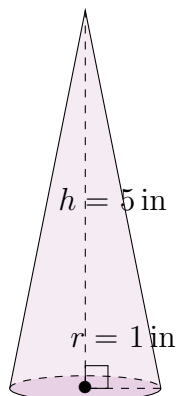
Surface Area: 3155 mi^2
Volume: $11,494 \text{ mi}^3$

2.



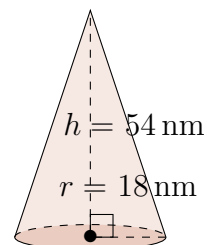
Surface Area: 77 mm^2
Volume: 42 mm^3

3.



Surface Area: 19 in^2
Volume: 5 in^3

4.



Surface Area: 4237 nm^2
Volume: $18,322 \text{ nm}^3$