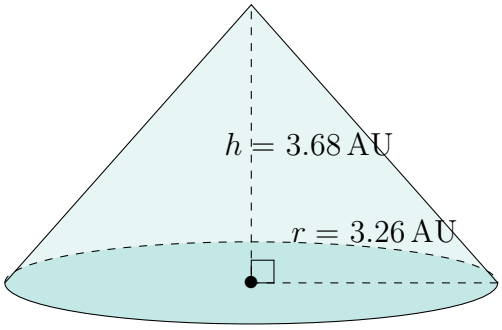
Surface Area and Volume of Cones (C)

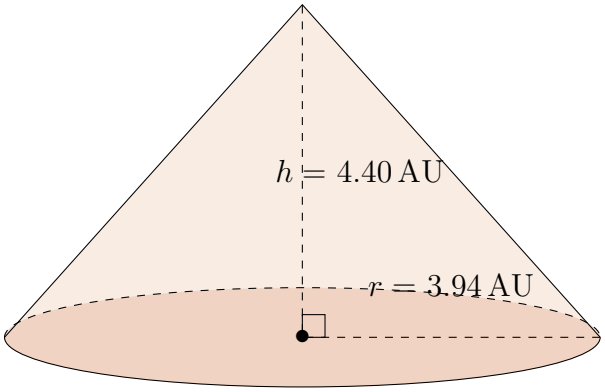
Calculate the surface area and volume for each cone.

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

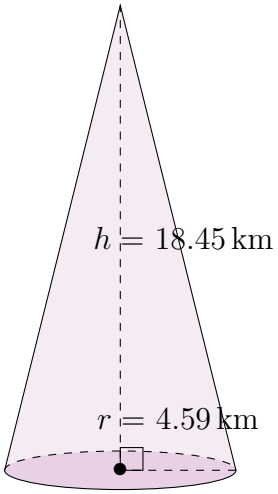
1.



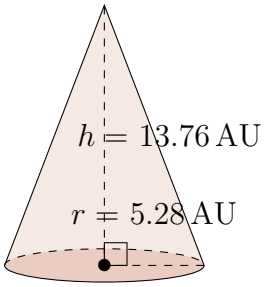
2.



3.



4.

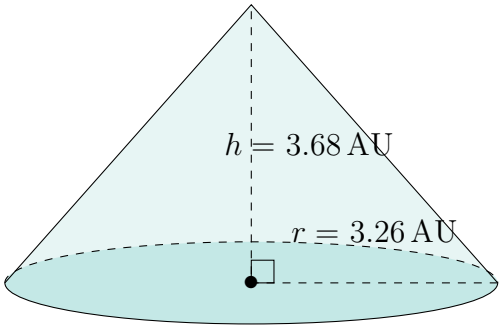


Surface Area and Volume of Cones (C) Answers

Calculate the surface area and volume for each cone.

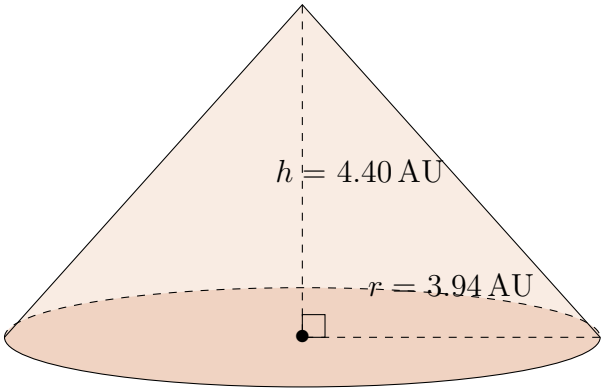
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



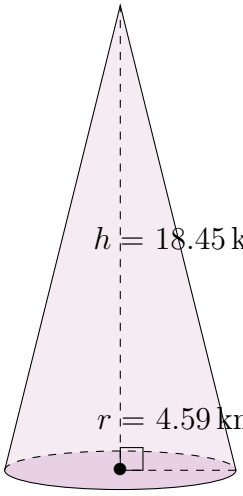
Surface Area: $83.74\,\text{AU}^2$
Volume: $40.96\,\text{AU}^3$

2.



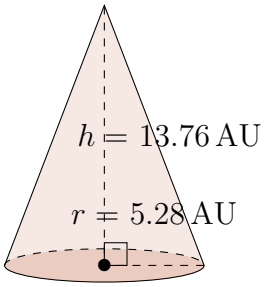
Surface Area: $121.88\,\text{AU}^2$
Volume: $71.53\,\text{AU}^3$

3.



Surface Area: $340.34\,\text{km}^2$
Volume: $407.05\,\text{km}^3$

4.



Surface Area: $332.05\,\text{AU}^2$
Volume: $401.71\,\text{AU}^3$