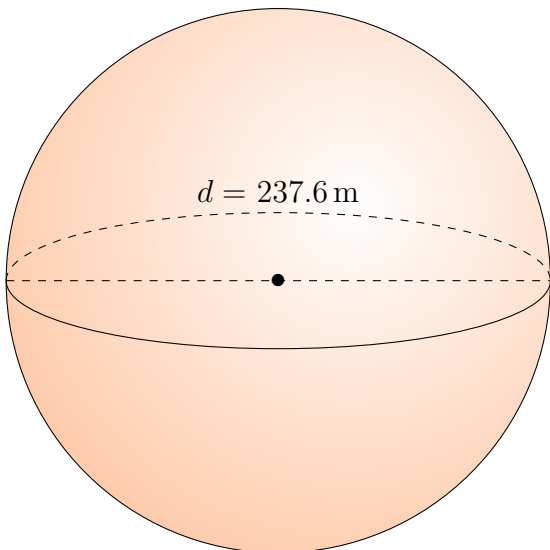


Surface Area and Volume of Spheres (I)

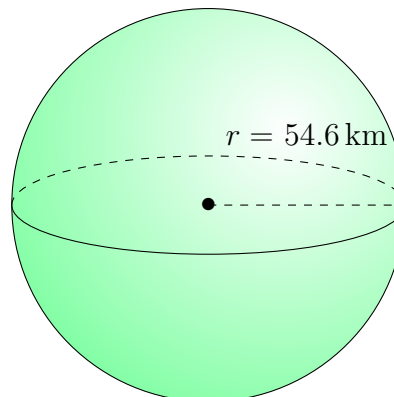
Calculate the surface area and volume for each sphere.

$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

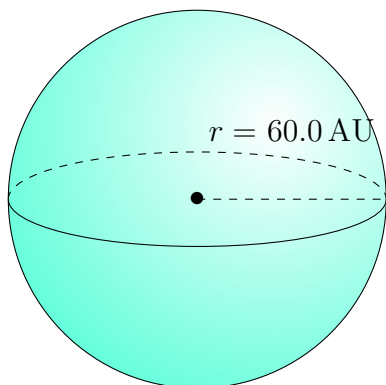
1.



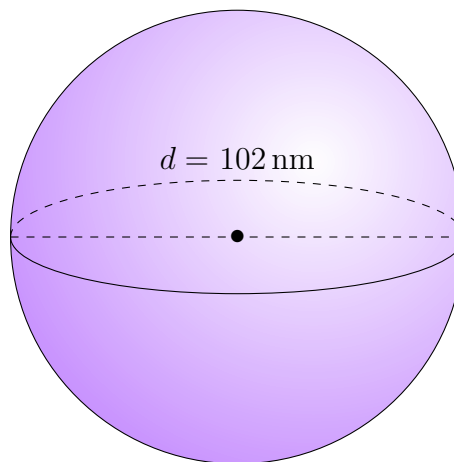
2.



3.



4.

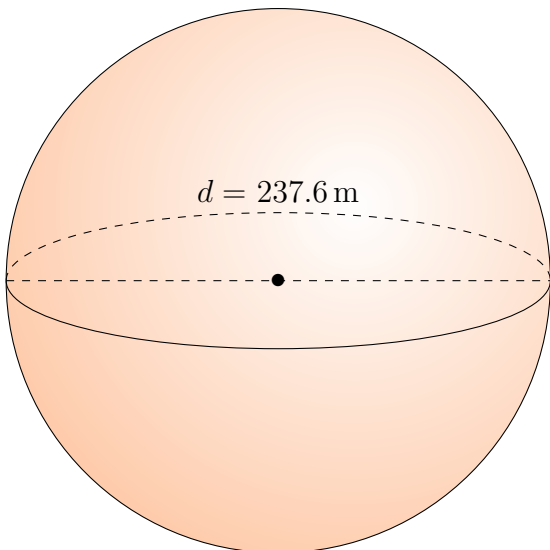


Surface Area and Volume of Spheres (I) Answers

Calculate the surface area and volume for each sphere.

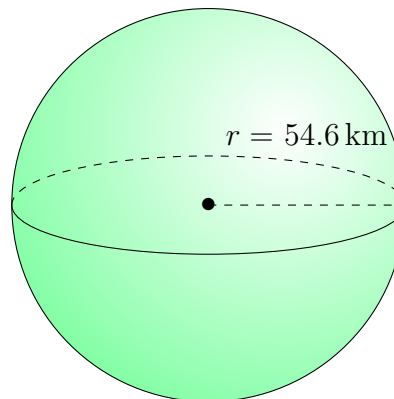
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



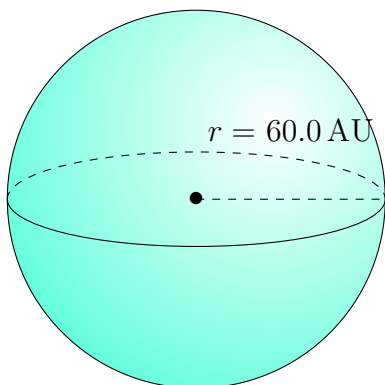
$$\begin{aligned} \text{Surface Area: } & 177,354.7 \text{ m}^2 \\ \text{Volume: } & 7,023,246.8 \text{ m}^3 \end{aligned}$$

2.



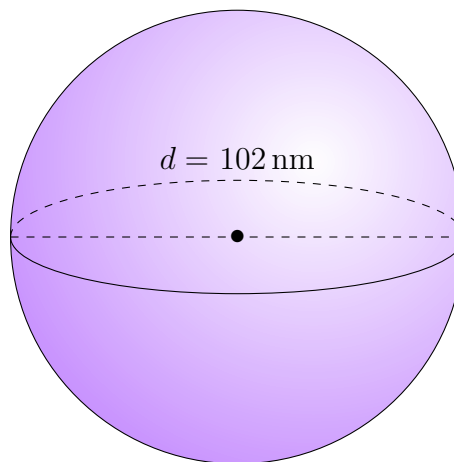
$$\begin{aligned} \text{Surface Area: } & 37,462.4 \text{ km}^2 \\ \text{Volume: } & 681,815.0 \text{ km}^3 \end{aligned}$$

3.



$$\begin{aligned} \text{Surface Area: } & 45,238.9 \text{ AU}^2 \\ \text{Volume: } & 904,778.7 \text{ AU}^3 \end{aligned}$$

4.



$$\begin{aligned} \text{Surface Area: } & 32,685 \text{ nm}^2 \\ \text{Volume: } & 555,647 \text{ nm}^3 \end{aligned}$$