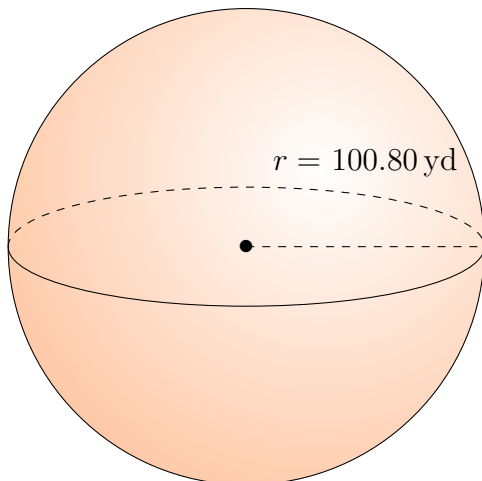


Surface Area and Volume of Spheres (F)

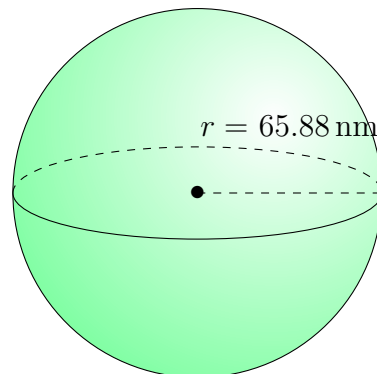
Calculate the surface area and volume for each sphere.

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

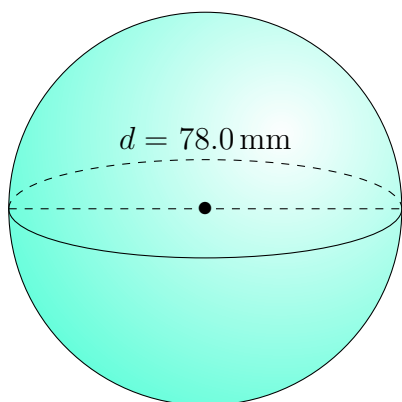
1.



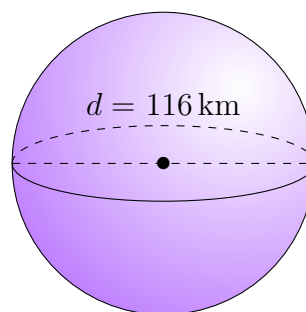
2.



3.



4.

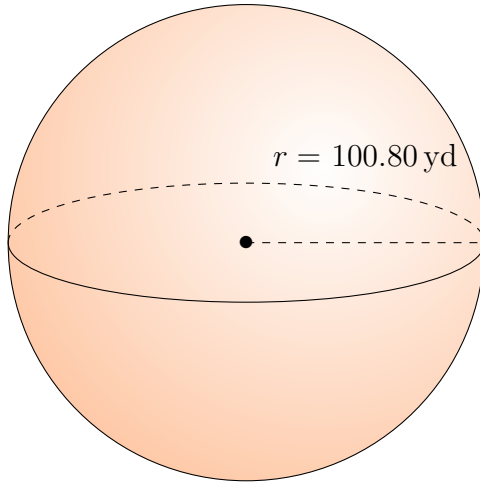


Surface Area and Volume of Spheres (F) Answers

Calculate the surface area and volume for each sphere.

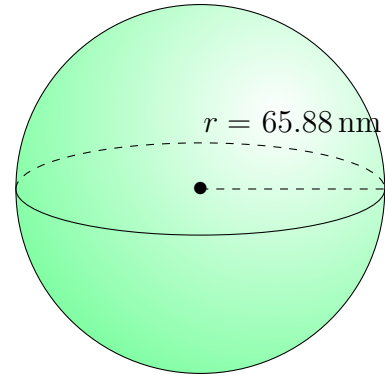
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



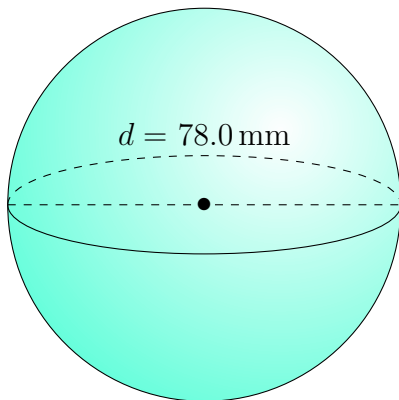
Surface Area: $127,682.37 \text{ yd}^2$
Volume: $4,290,127.56 \text{ yd}^3$

2.



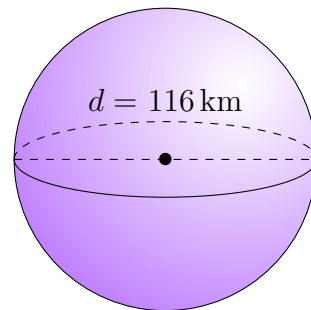
Surface Area: $54,540.24 \text{ nm}^2$
Volume: $1,197,703.67 \text{ nm}^3$

3.



Surface Area: $19,113.4 \text{ mm}^2$
Volume: $248,474.8 \text{ mm}^3$

4.



Surface Area: $42,273 \text{ km}^2$
Volume: $817,283 \text{ km}^3$