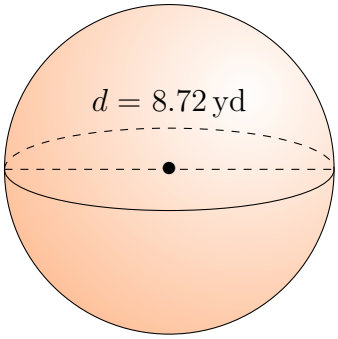
Surface Area and Volume of Spheres (D)

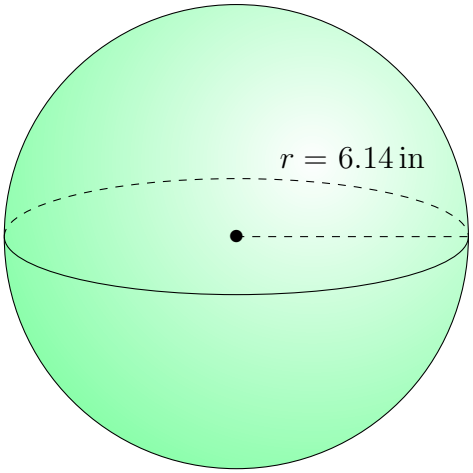
Calculate the surface area and volume for each sphere.

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

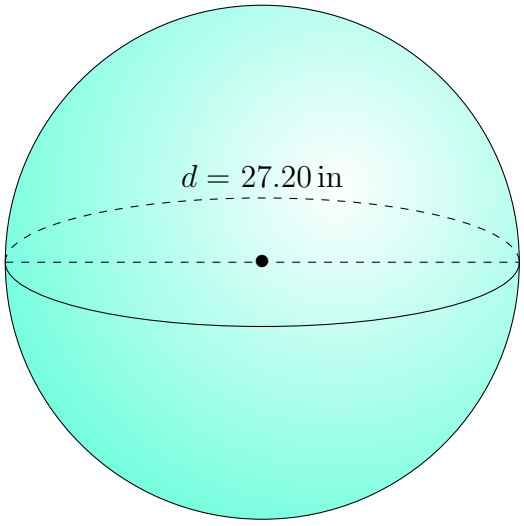
1.



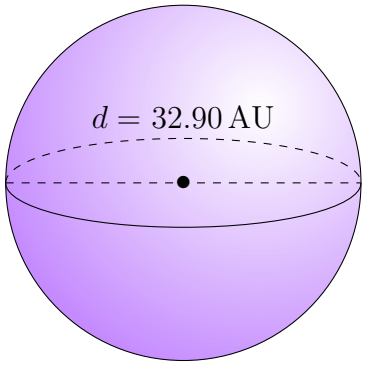
2.



3.



4.

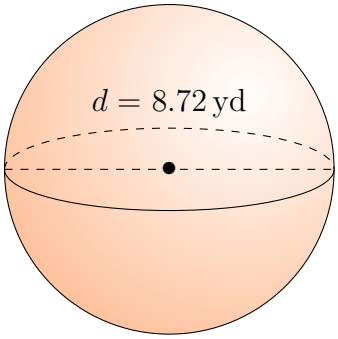


Surface Area and Volume of Spheres (D) Answers

Calculate the surface area and volume for each sphere.

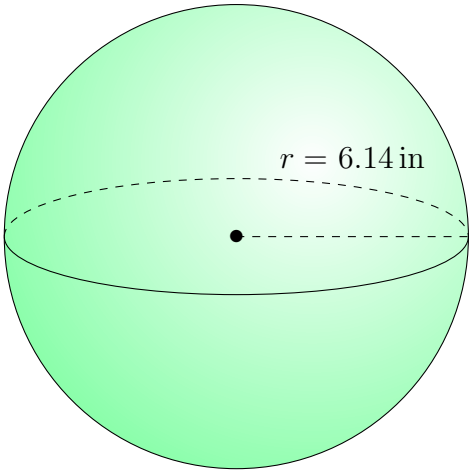
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



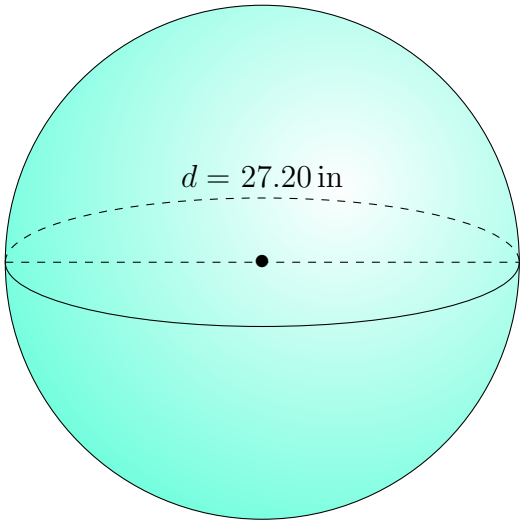
Surface Area: $238.88\,\text{yd}^2$
Volume: $347.17\,\text{yd}^3$

2.



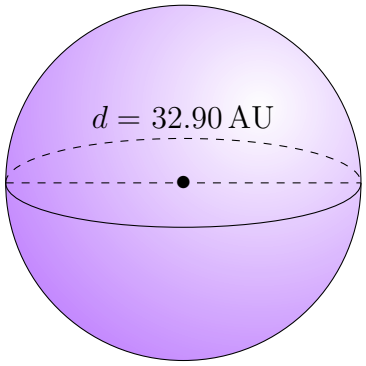
Surface Area: $473.75\,\text{in}^2$
Volume: $969.60\,\text{in}^3$

3.



Surface Area: $2324.28\,\text{in}^2$
Volume: $10{,}536.72\,\text{in}^3$

4.



Surface Area: $3400.49\,\text{AU}^2$
Volume: $18{,}646.03\,\text{AU}^3$