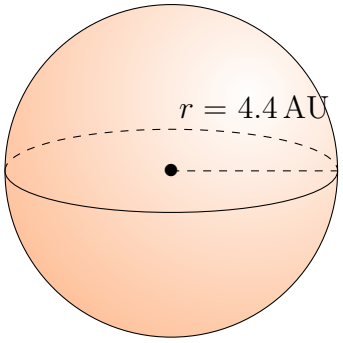
Surface Area and Volume of Spheres (I)

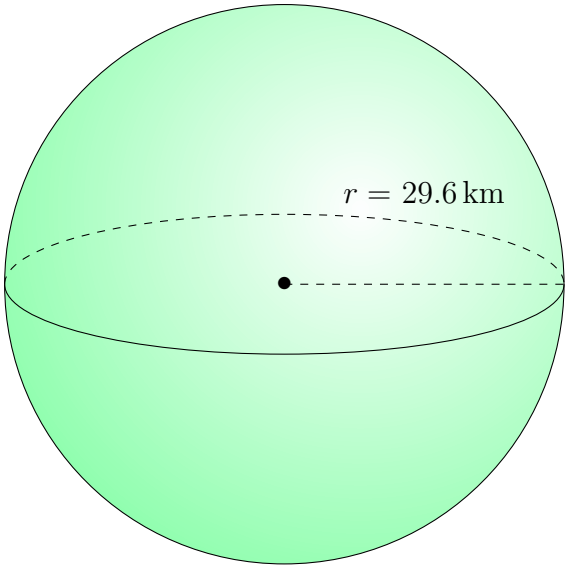
Calculate the surface area and volume for each sphere.

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

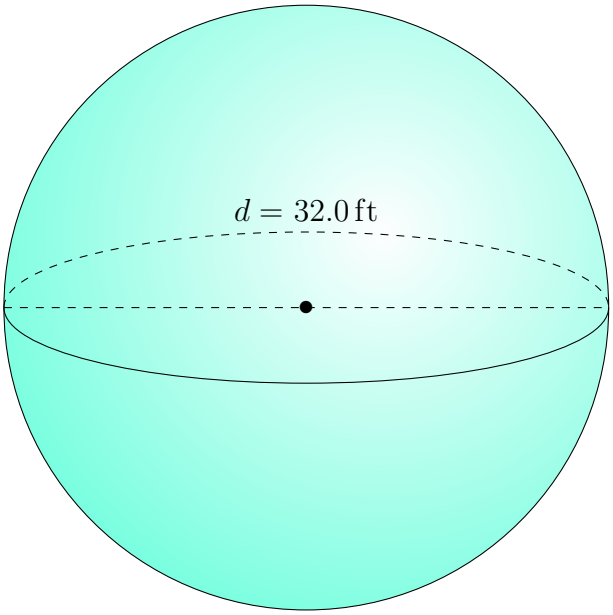
1.



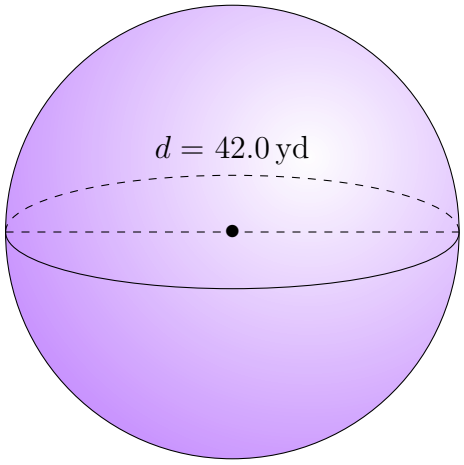
2.



3.



4.

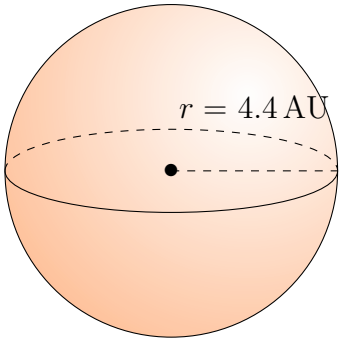


Surface Area and Volume of Spheres (I) Answers

Calculate the surface area and volume for each sphere.

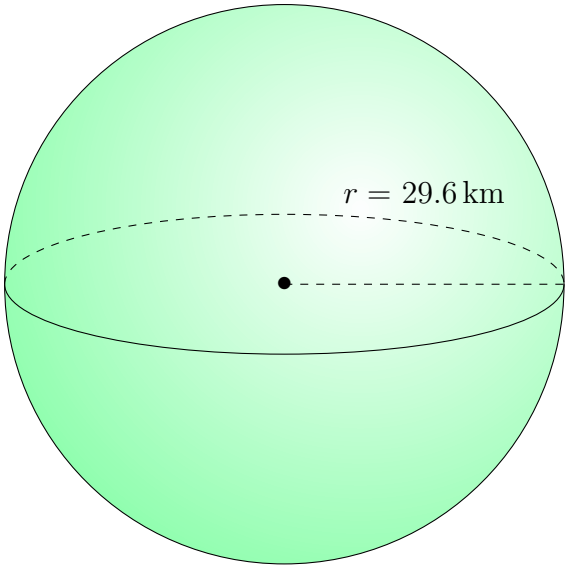
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



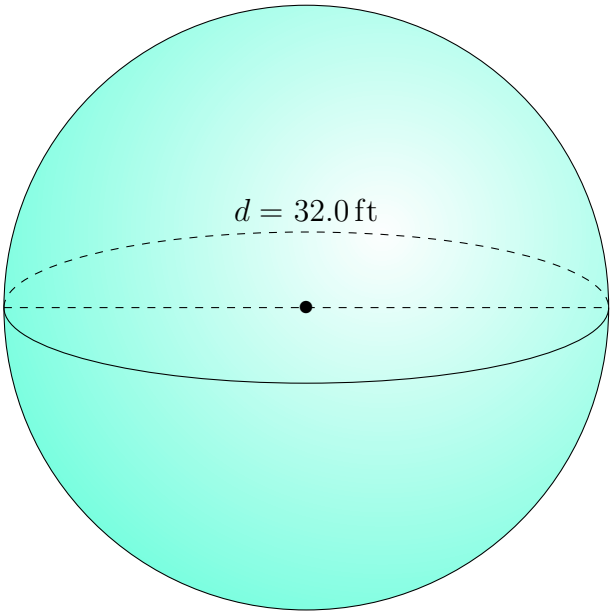
Surface Area: $243.3\,\text{AU}^2$
Volume: $356.8\,\text{AU}^3$

2.



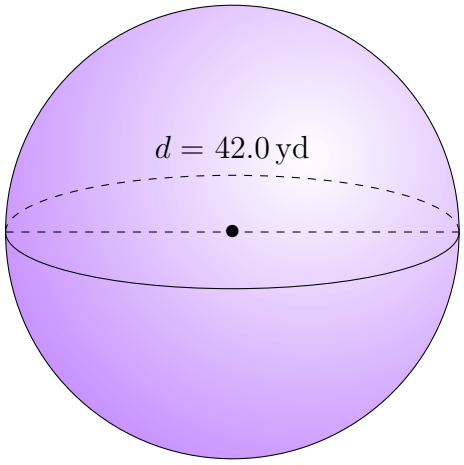
Surface Area: $11{,}010.2\,\text{km}^2$
Volume: $108{,}633.5\,\text{km}^3$

3.



Surface Area: $3217.0\,\text{ft}^2$
Volume: $17{,}157.3\,\text{ft}^3$

4.



Surface Area: $5541.8\,\text{yd}^2$
Volume: $38{,}792.4\,\text{yd}^3$