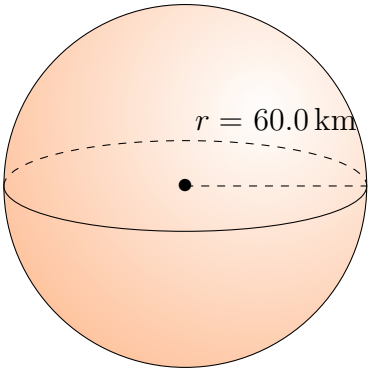
Surface Area and Volume of Spheres (A)

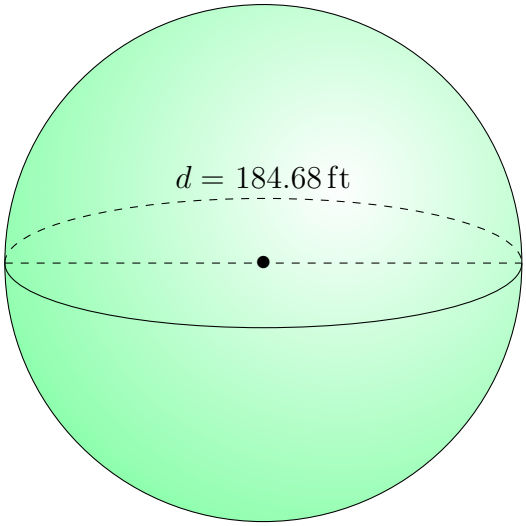
Calculate the surface area and volume for each sphere.

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

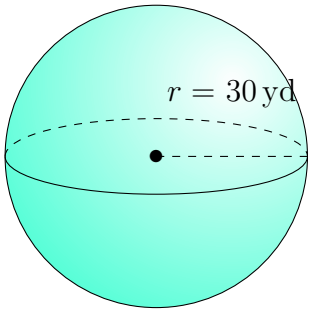
1.



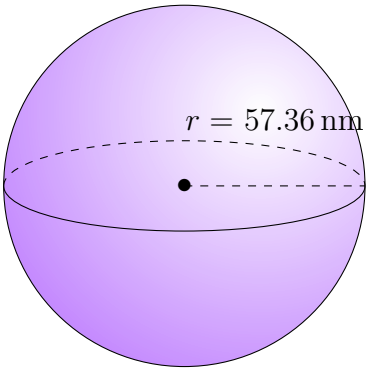
2.



3.



4.

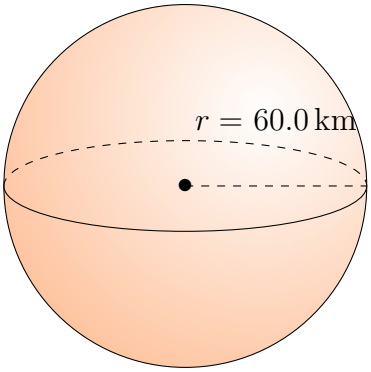


Surface Area and Volume of Spheres (A) Answers

Calculate the surface area and volume for each sphere.

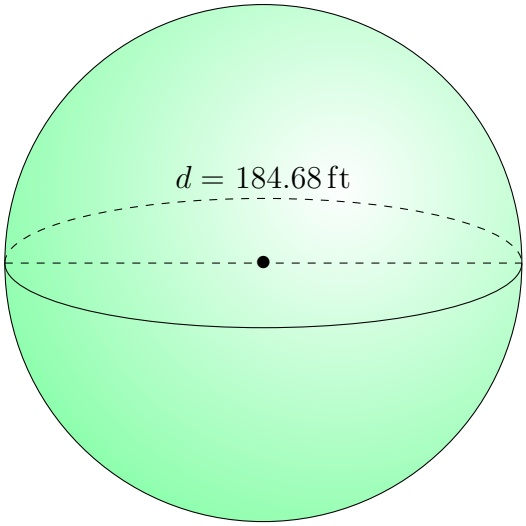
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



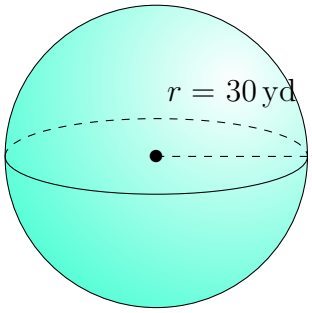
Surface Area: $45{,}238.9\,\text{km}^2$
Volume: $904{,}778.7\,\text{km}^3$

2.



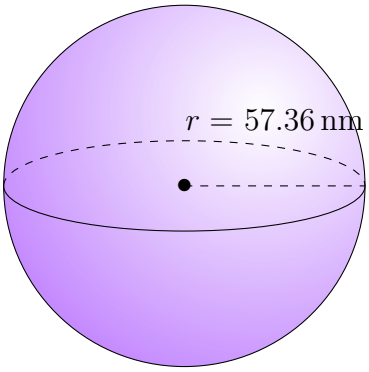
Surface Area: $107{,}149.37\,\text{ft}^2$
Volume: $3{,}298{,}057.48\,\text{ft}^3$

3.



Surface Area: $11{,}310\,\text{yd}^2$
Volume: $113{,}097\,\text{yd}^3$

4.



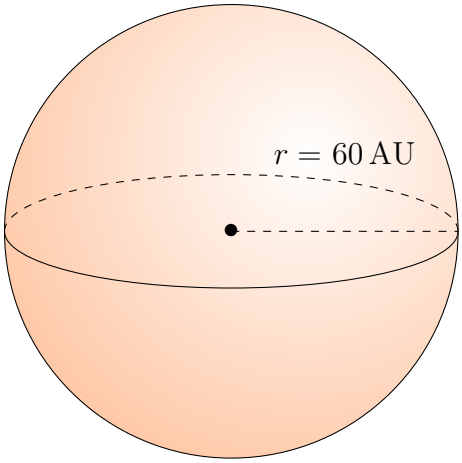
Surface Area: $41{,}345.49\,\text{nm}^2$
Volume: $790{,}525.78\,\text{nm}^3$

Surface Area and Volume of Spheres (B)

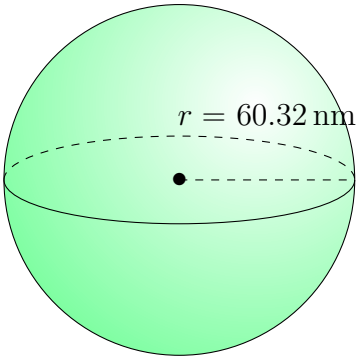
Calculate the surface area and volume for each sphere.

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

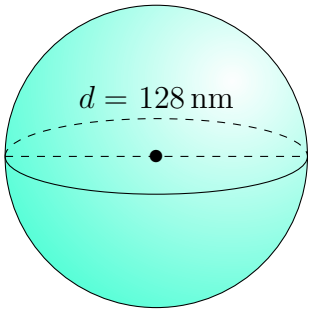
1.



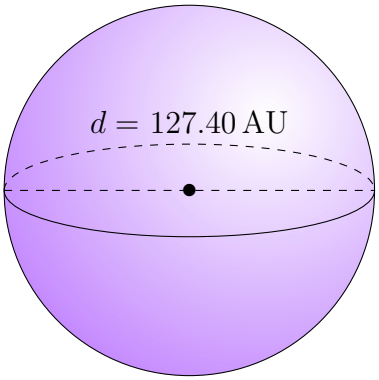
2.



3.



4.

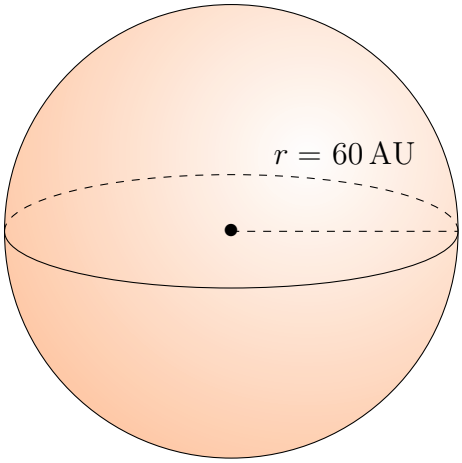


Surface Area and Volume of Spheres (B) Answers

Calculate the surface area and volume for each sphere.

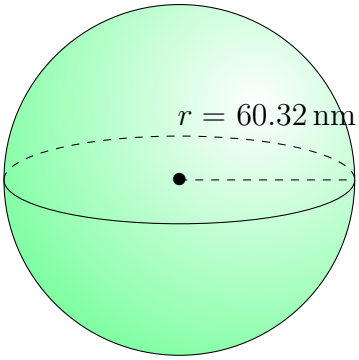
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



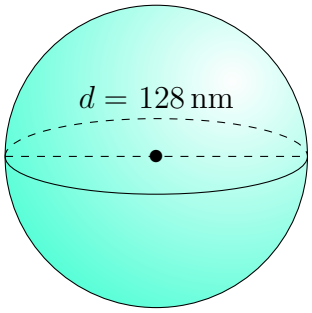
Surface Area: $45{,}239\,\text{AU}^2$
Volume: $904{,}779\,\text{AU}^3$

2.



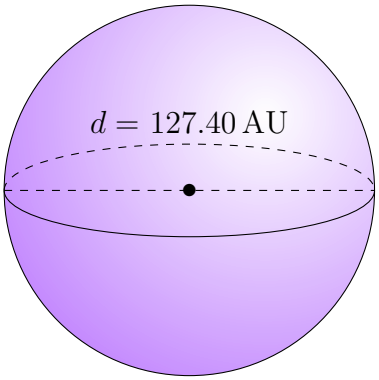
Surface Area: $45{,}722.77\,\text{nm}^2$
Volume: $919{,}332.49\,\text{nm}^3$

3.



Surface Area: $51{,}472\,\text{nm}^2$
Volume: $1{,}098{,}066\,\text{nm}^3$

4.



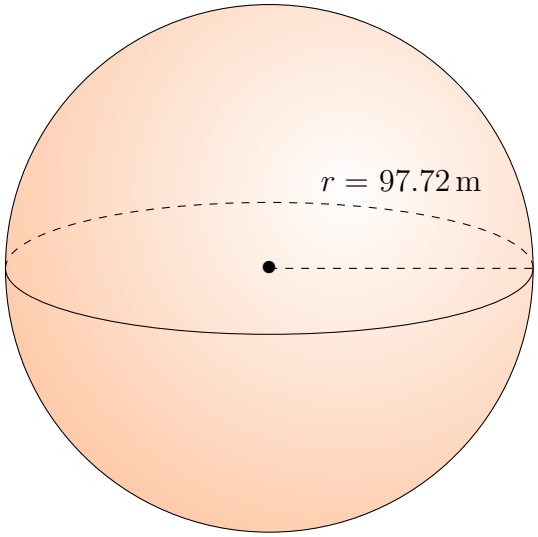
Surface Area: $50{,}990.44\,\text{AU}^2$
Volume: $1{,}082{,}696.93\,\text{AU}^3$

Surface Area and Volume of Spheres (C)

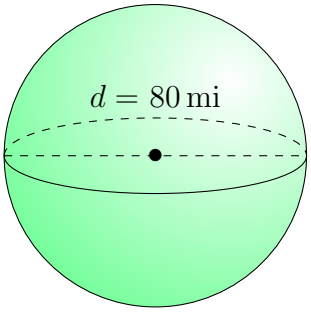
Calculate the surface area and volume for each sphere.

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

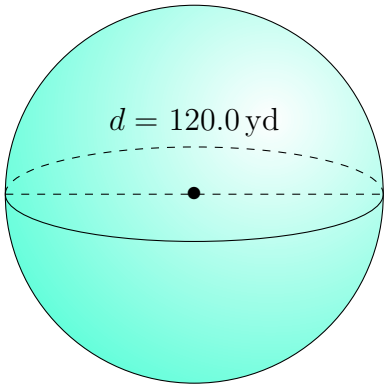
1.



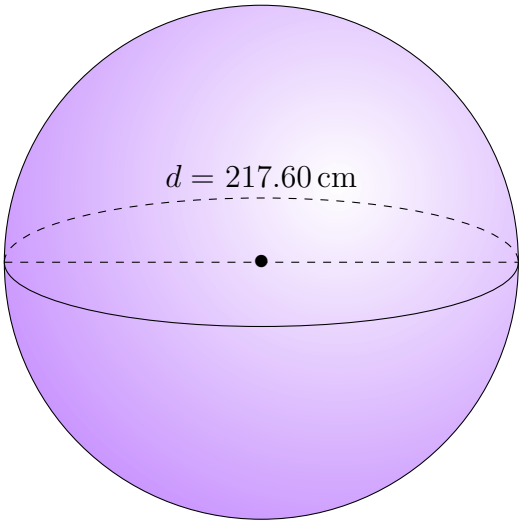
2.



3.



4.

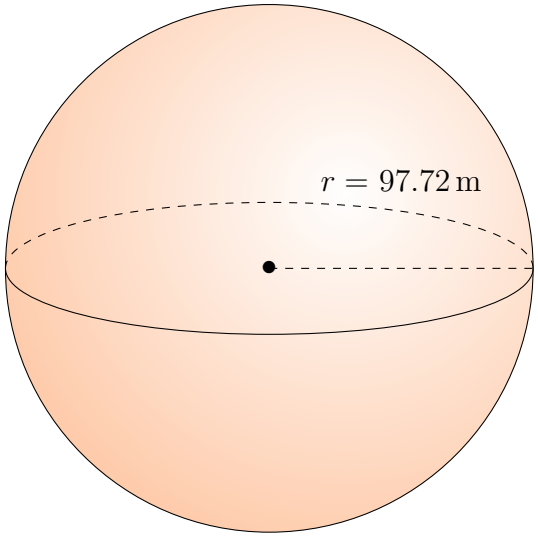


Surface Area and Volume of Spheres (C) Answers

Calculate the surface area and volume for each sphere.

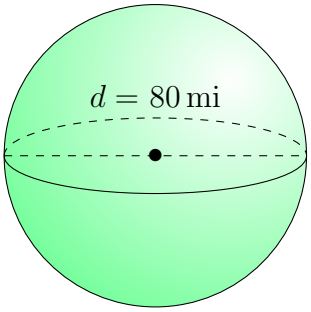
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



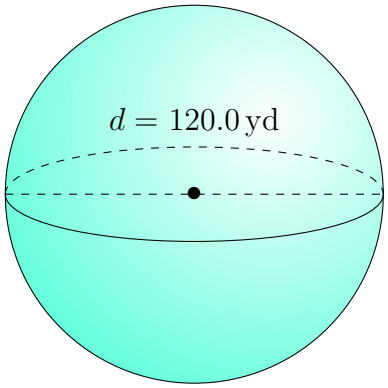
Surface Area: $119{,}998.77\,\text{m}^2$
Volume: $3{,}908{,}759.81\,\text{m}^3$

2.



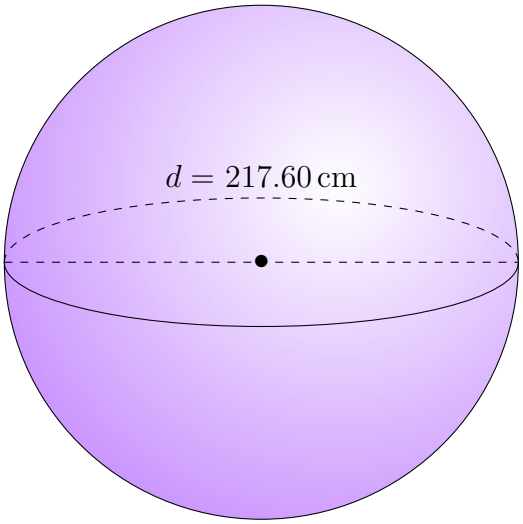
Surface Area: $20{,}106\,\text{mi}^2$
Volume: $268{,}083\,\text{mi}^3$

3.



Surface Area: $45{,}238.9\,\text{yd}^2$
Volume: $904{,}778.7\,\text{yd}^3$

4.



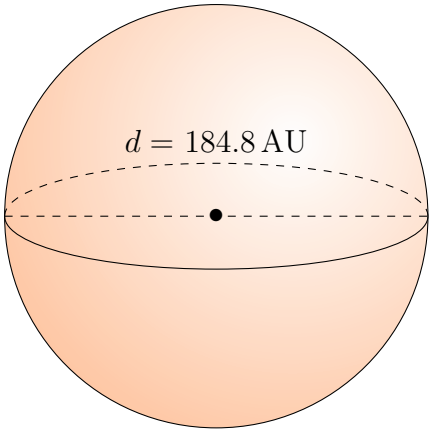
Surface Area: $148{,}753.66\,\text{cm}^2$
Volume: $5{,}394{,}799.34\,\text{cm}^3$

Surface Area and Volume of Spheres (D)

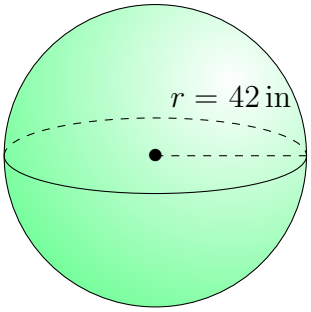
Calculate the surface area and volume for each sphere.

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

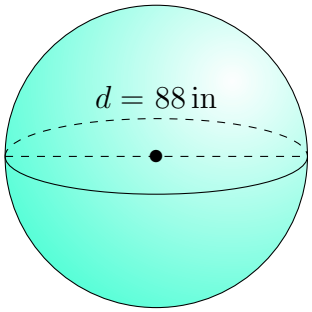
1.



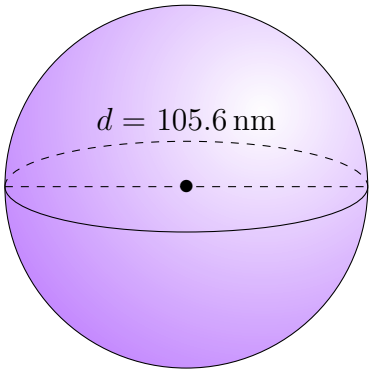
2.



3.



4.

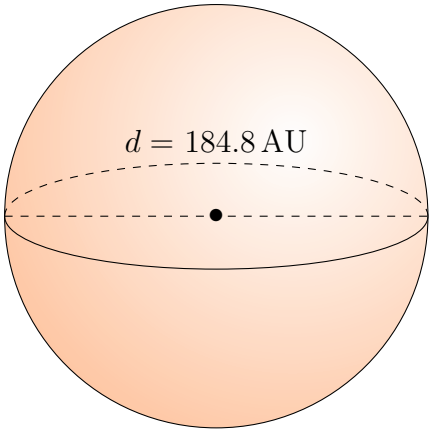


Surface Area and Volume of Spheres (D) Answers

Calculate the surface area and volume for each sphere.

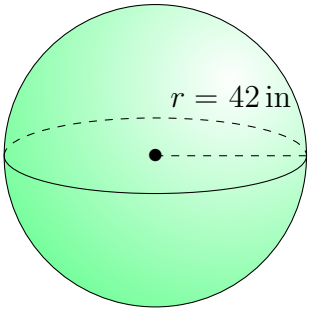
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



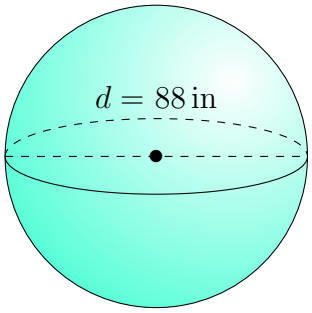
Surface Area: $107{,}288.7\,\text{AU}^2$
Volume: $3{,}304{,}490.6\,\text{AU}^3$

2.



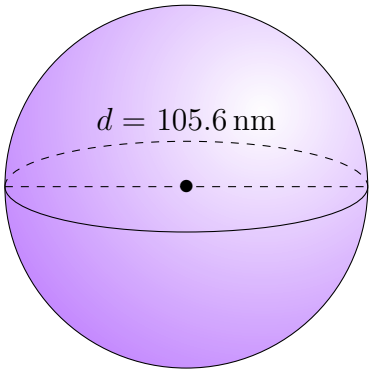
Surface Area: $22{,}167\,\text{in}^2$
Volume: $310{,}339\,\text{in}^3$

3.



Surface Area: $24{,}328\,\text{in}^2$
Volume: $356{,}818\,\text{in}^3$

4.



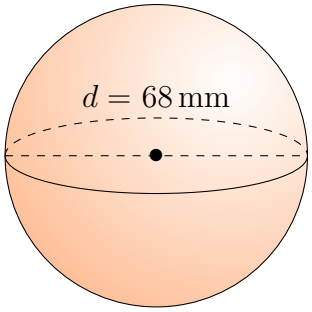
Surface Area: $35{,}033.0\,\text{nm}^2$
Volume: $616{,}581.3\,\text{nm}^3$

Surface Area and Volume of Spheres (E)

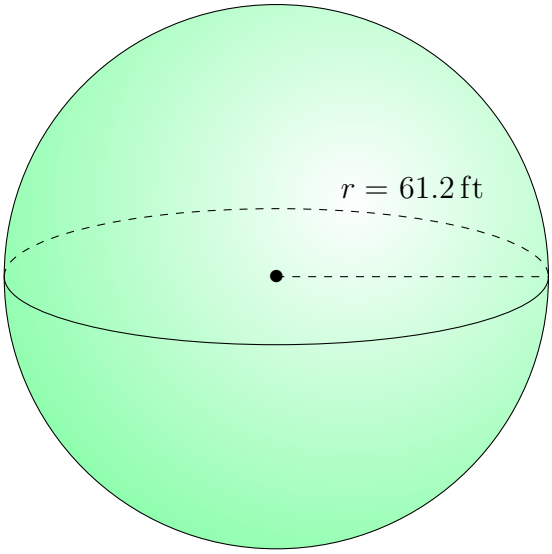
Calculate the surface area and volume for each sphere.

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

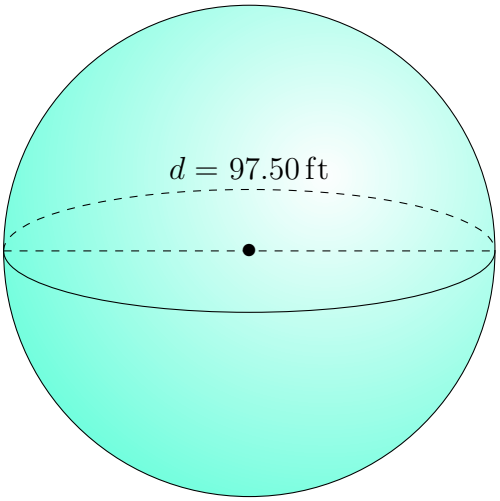
1.



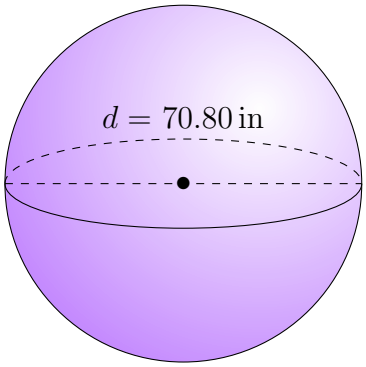
2.



3.



4.

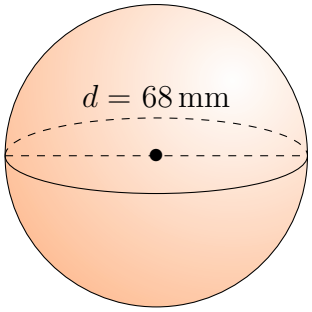


Surface Area and Volume of Spheres (E) Answers

Calculate the surface area and volume for each sphere.

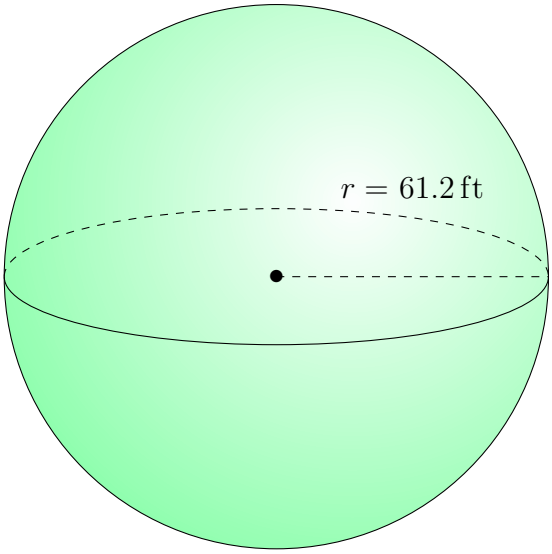
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



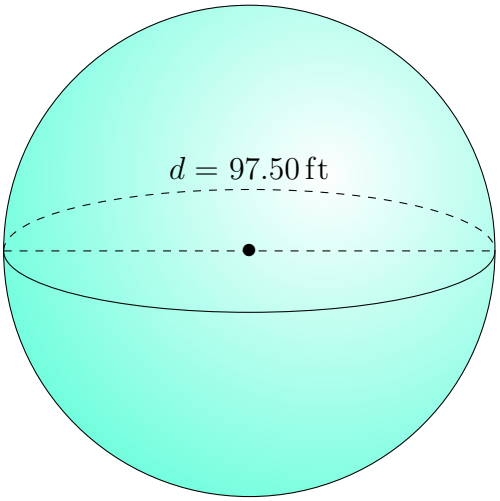
Surface Area: $14{,}527\,\text{mm}^2$
Volume: $164{,}636\,\text{mm}^3$

2.



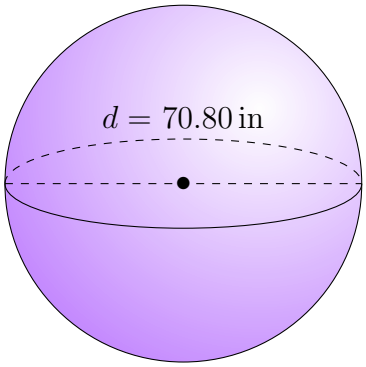
Surface Area: $47{,}066.6\,\text{ft}^2$
Volume: $960{,}158.4\,\text{ft}^3$

3.



Surface Area: $29{,}864.77\,\text{ft}^2$
Volume: $485{,}302.43\,\text{ft}^3$

4.



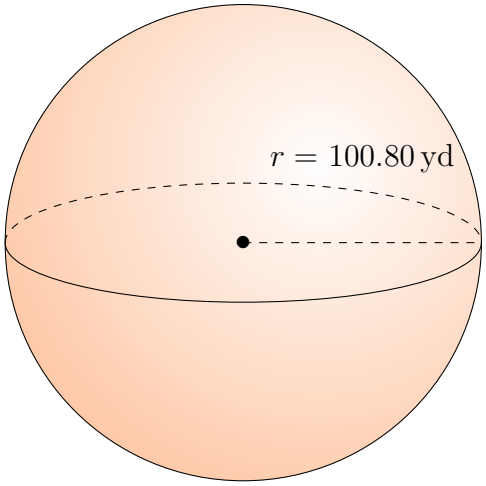
Surface Area: $15{,}747.67\,\text{in}^2$
Volume: $185{,}822.54\,\text{in}^3$

Surface Area and Volume of Spheres (F)

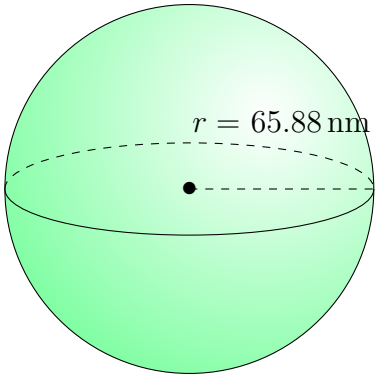
Calculate the surface area and volume for each sphere.

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

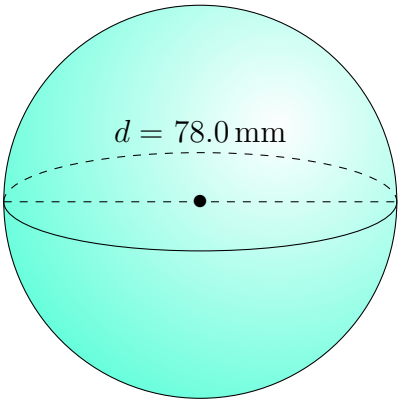
1.



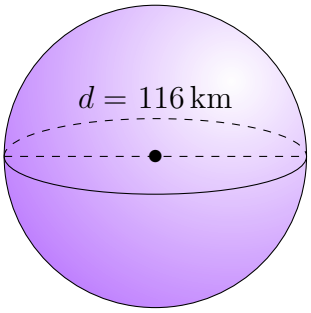
2.



3.



4.

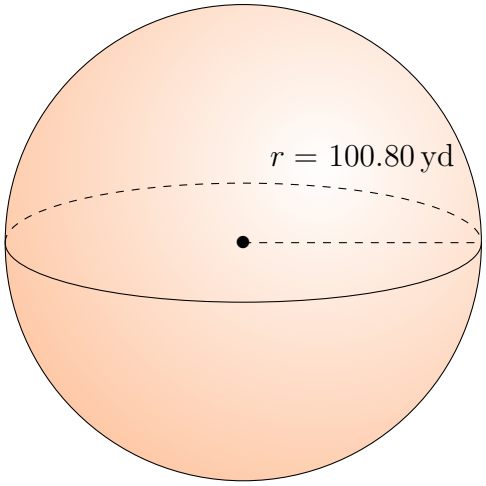


Surface Area and Volume of Spheres (F) Answers

Calculate the surface area and volume for each sphere.

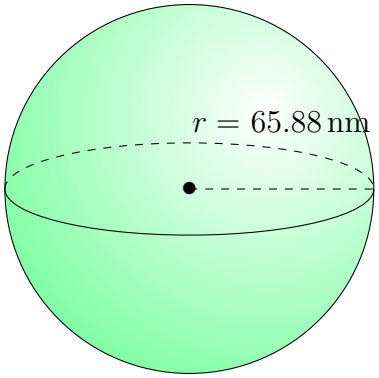
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



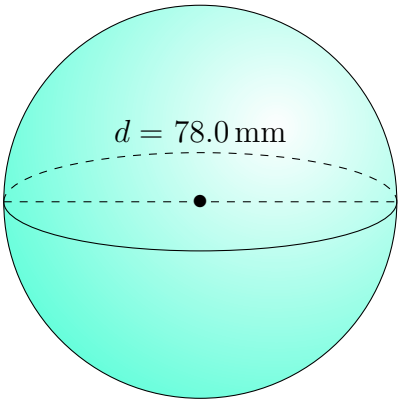
Surface Area: 127,682.37 yd^2
Volume: 4,290,127.56 yd^3

2.



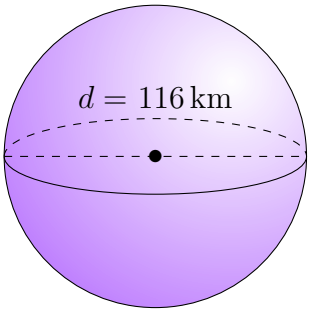
Surface Area: 54,540.24 nm^2
Volume: 1,197,703.67 nm^3

3.



Surface Area: 19,113.4 mm^2
Volume: 248,474.8 mm^3

4.



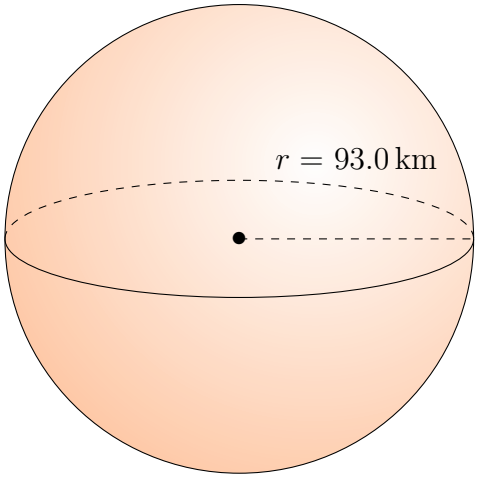
Surface Area: 42,273 km^2
Volume: 817,283 km^3

Surface Area and Volume of Spheres (G)

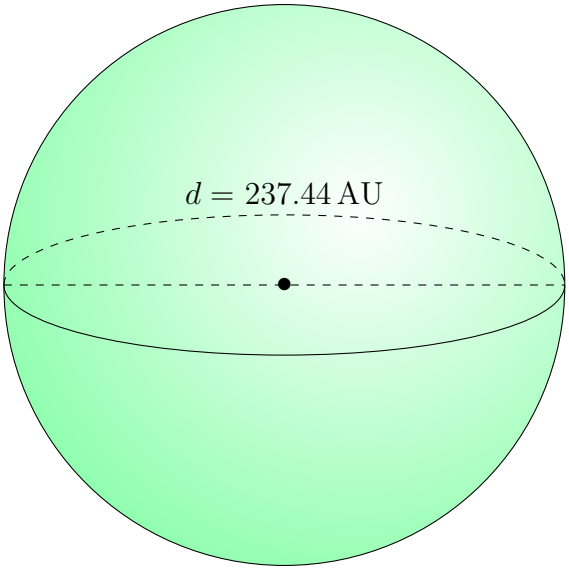
Calculate the surface area and volume for each sphere.

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

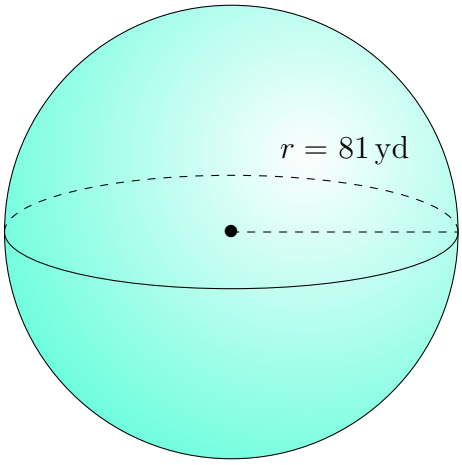
1.



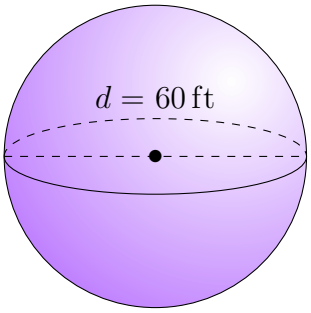
2.



3.



4.

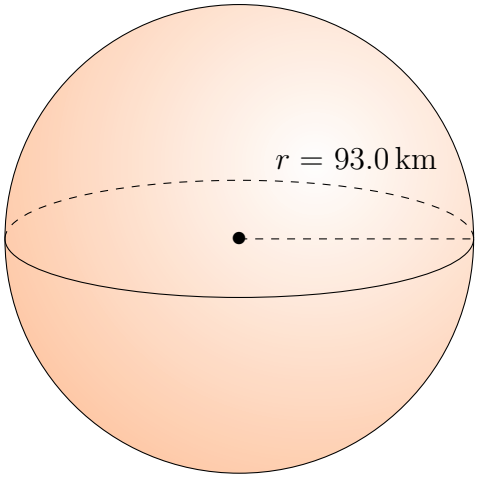


Surface Area and Volume of Spheres (G) Answers

Calculate the surface area and volume for each sphere.

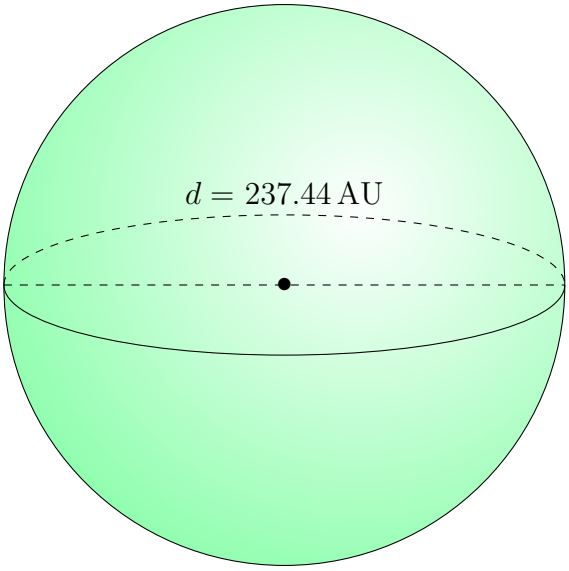
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



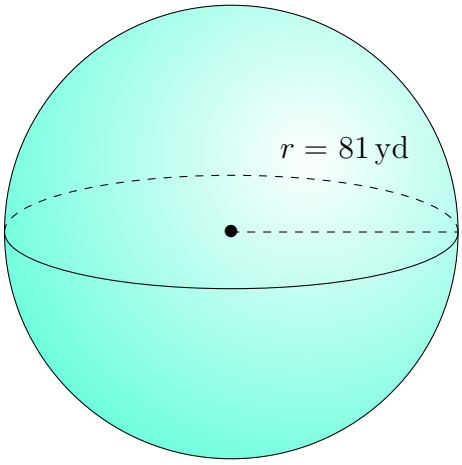
Surface Area: $108{,}686.5\,\text{km}^2$
Volume: $3{,}369{,}282.7\,\text{km}^3$

2.



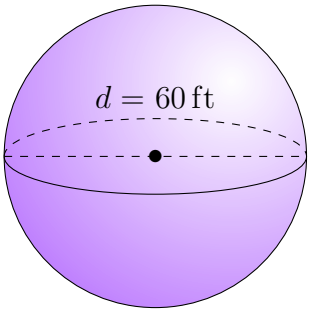
Surface Area: $177{,}115.94\,\text{AU}^2$
Volume: $7{,}009{,}068.00\,\text{AU}^3$

3.



Surface Area: $82{,}448\,\text{yd}^2$
Volume: $2{,}226{,}095\,\text{yd}^3$

4.



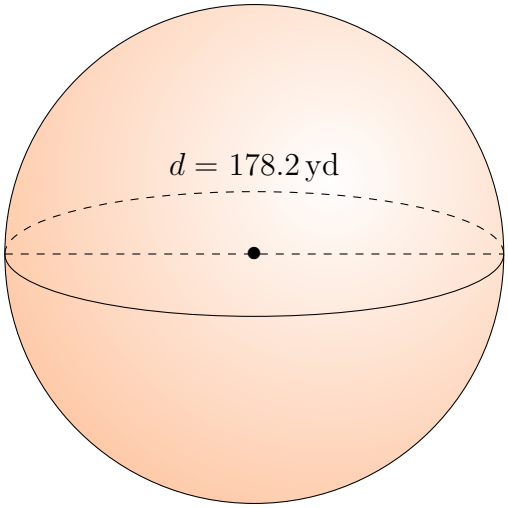
Surface Area: $11{,}310\,\text{ft}^2$
Volume: $113{,}097\,\text{ft}^3$

Surface Area and Volume of Spheres (H)

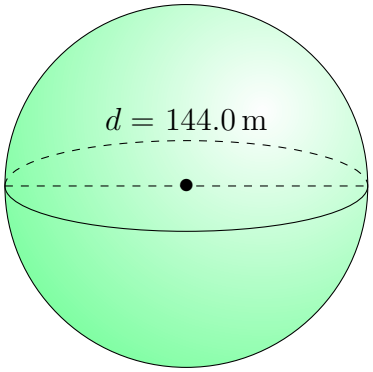
Calculate the surface area and volume for each sphere.

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

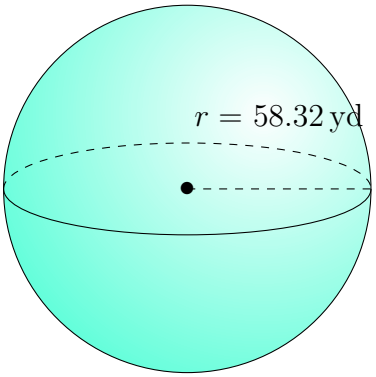
1.



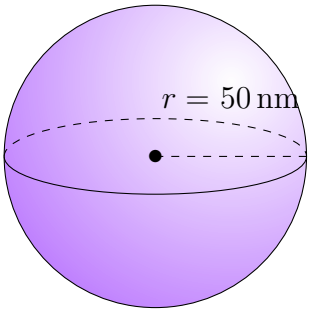
2.



3.



4.

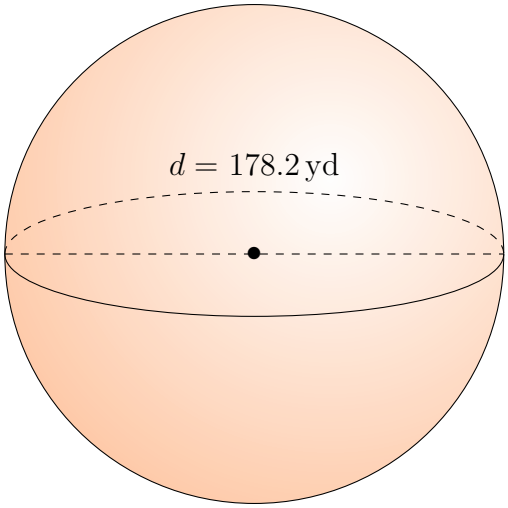


Surface Area and Volume of Spheres (H) Answers

Calculate the surface area and volume for each sphere.

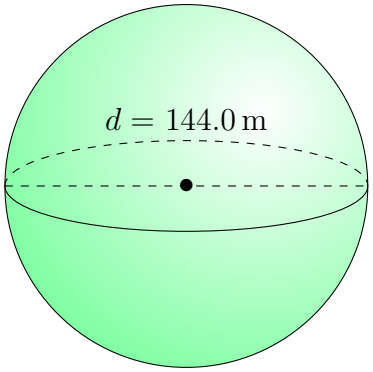
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



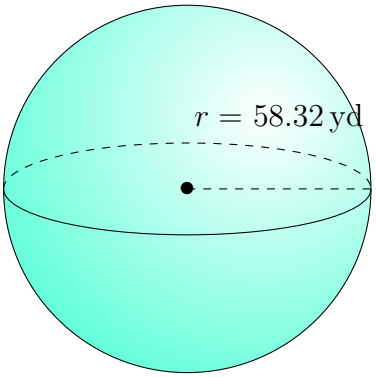
Surface Area: $99{,}762.0\,\text{yd}^2$
Volume: $2{,}962{,}932.3\,\text{yd}^3$

2.



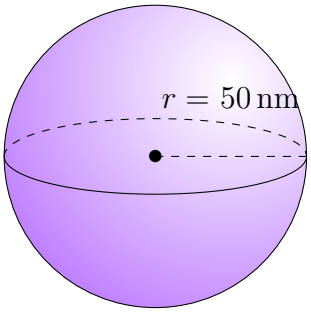
Surface Area: $65{,}144.1\,\text{m}^2$
Volume: $1{,}563{,}457.6\,\text{m}^3$

3.



Surface Area: $42{,}741.02\,\text{yd}^2$
Volume: $830{,}885.45\,\text{yd}^3$

4.



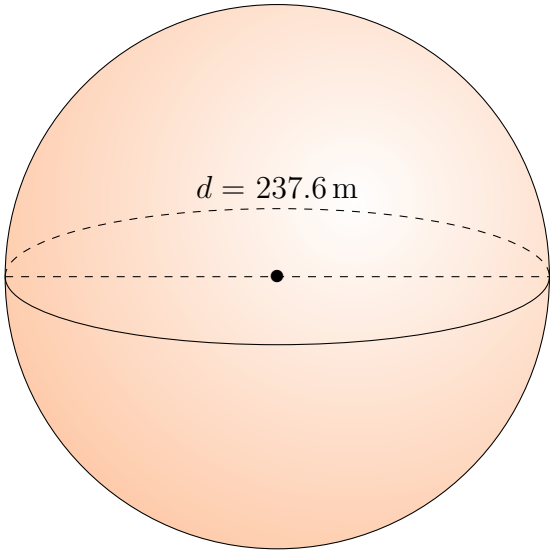
Surface Area: $31{,}416\,\text{nm}^2$
Volume: $523{,}599\,\text{nm}^3$

Surface Area and Volume of Spheres (I)

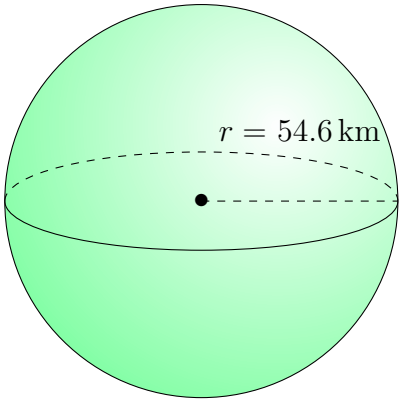
Calculate the surface area and volume for each sphere.

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

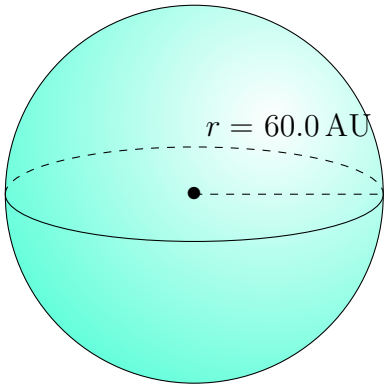
1.



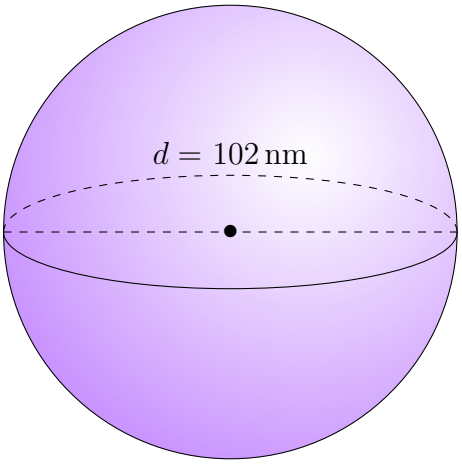
2.



3.



4.

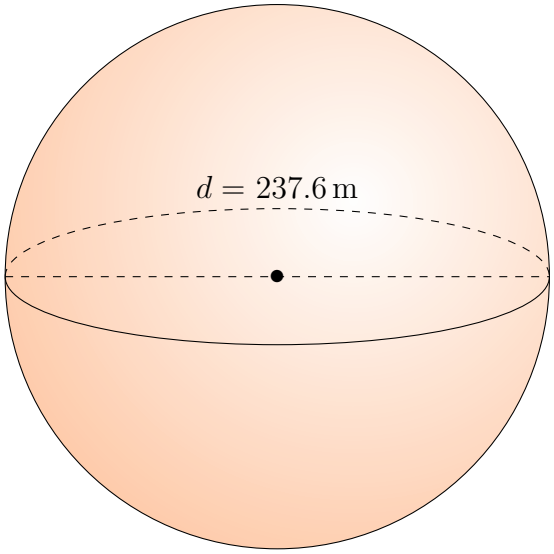


Surface Area and Volume of Spheres (I) Answers

Calculate the surface area and volume for each sphere.

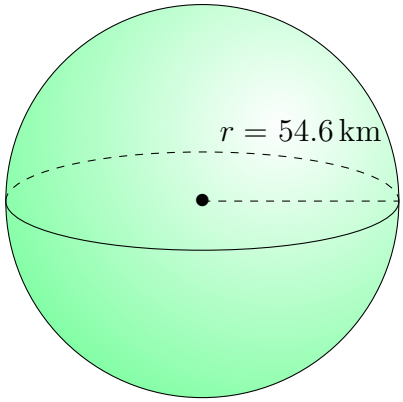
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



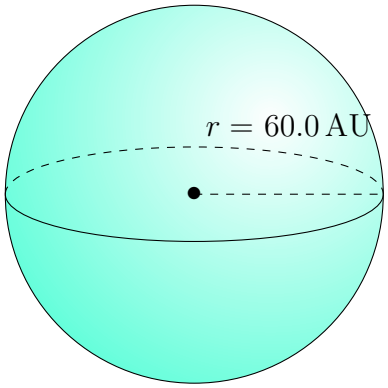
Surface Area: $177{,}354.7\,\text{m}^2$
Volume: $7{,}023{,}246.8\,\text{m}^3$

2.



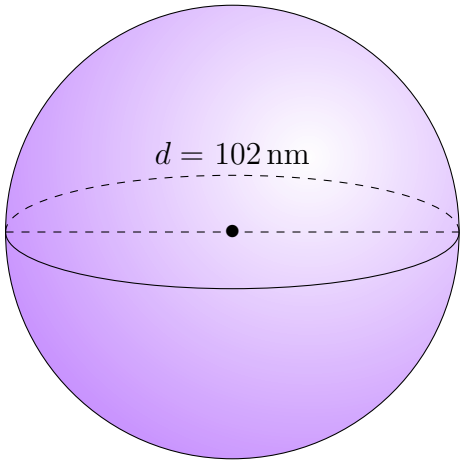
Surface Area: $37{,}462.4\,\text{km}^2$
Volume: $681{,}815.0\,\text{km}^3$

3.



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

4.



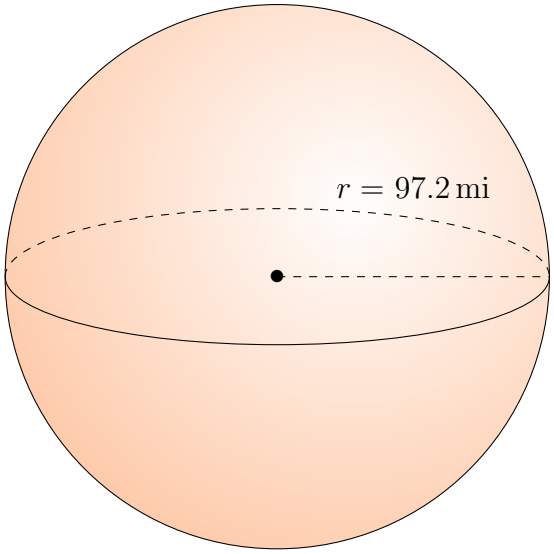
Surface Area: $32{,}685\,\text{nm}^2$
Volume: $555{,}647\,\text{nm}^3$

Surface Area and Volume of Spheres (J)

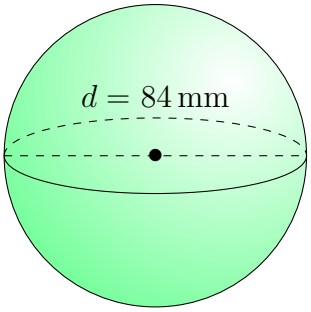
Calculate the surface area and volume for each sphere.

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

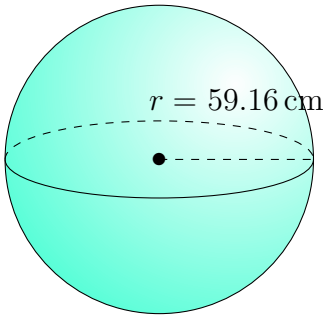
1.



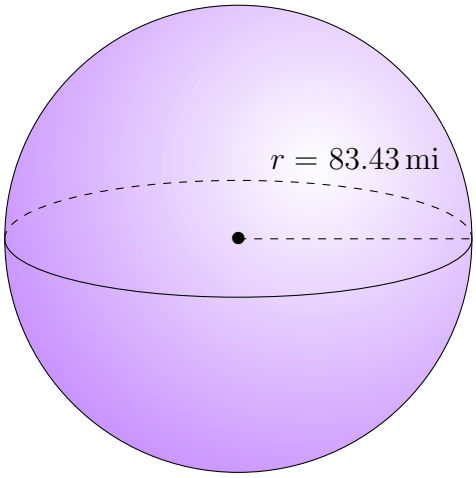
2.



3.



4.

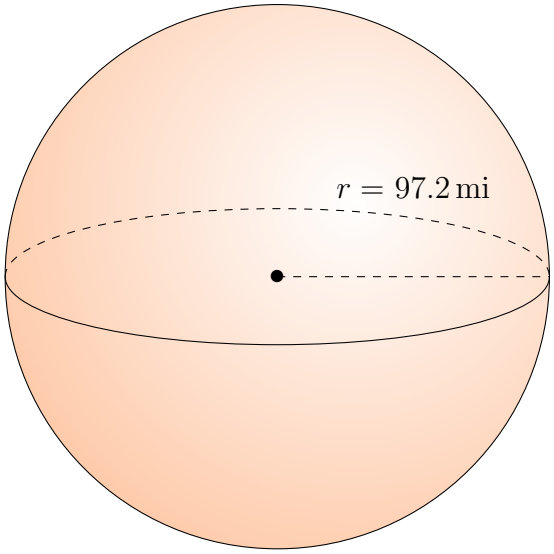


Surface Area and Volume of Spheres (J) Answers

Calculate the surface area and volume for each sphere.

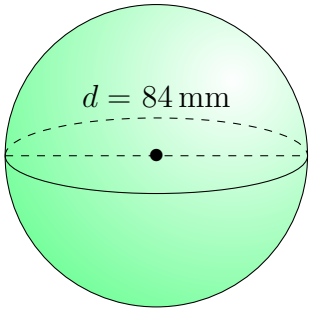
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



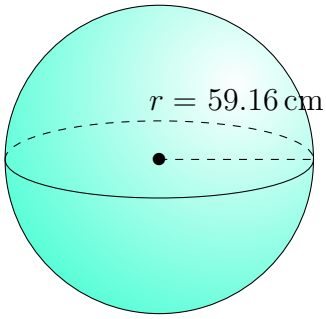
Surface Area: 118,725.1 mi^2
Volume: 3,846,691.9 mi^3

2.



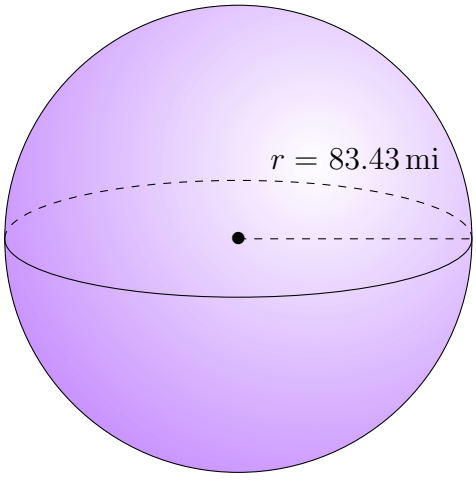
Surface Area: 22,167 mm^2
Volume: 310,339 mm^3

3.



Surface Area: 43,981.11 cm^2
Volume: 867,307.51 cm^3

4.



Surface Area: 87,469.04 mi^2
Volume: 2,432,513.95 mi^3