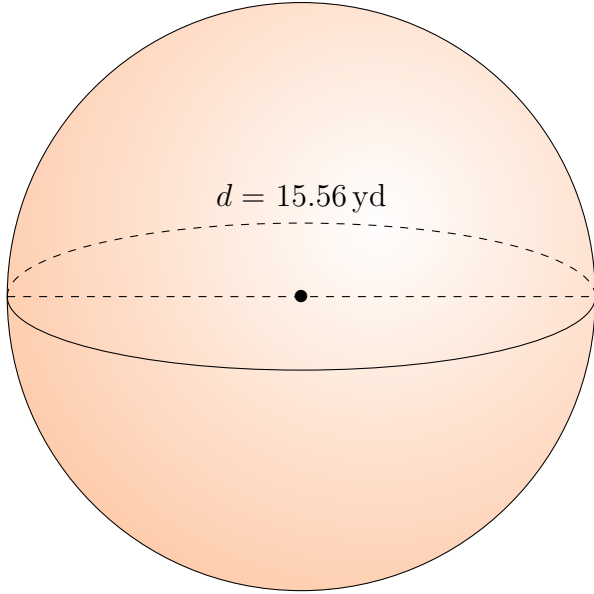


Surface Area and Volume of Spheres (A)

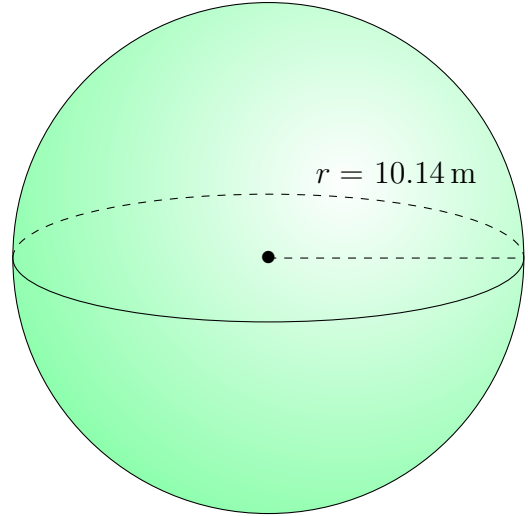
Calculate the surface area and volume for each sphere.

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

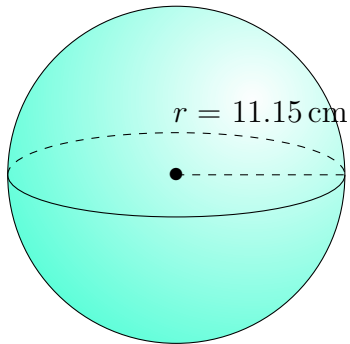
1.



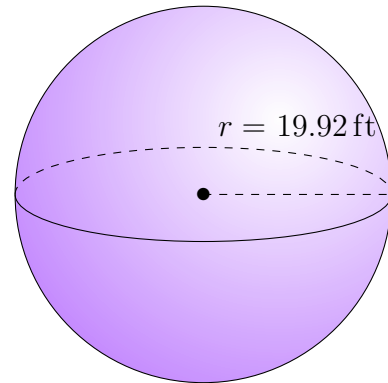
2.



3.



4.

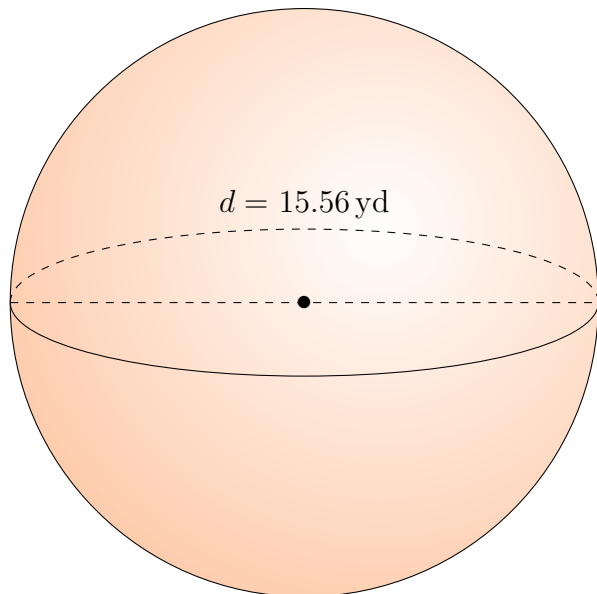


Surface Area and Volume of Spheres (A) Answers

Calculate the surface area and volume for each sphere.

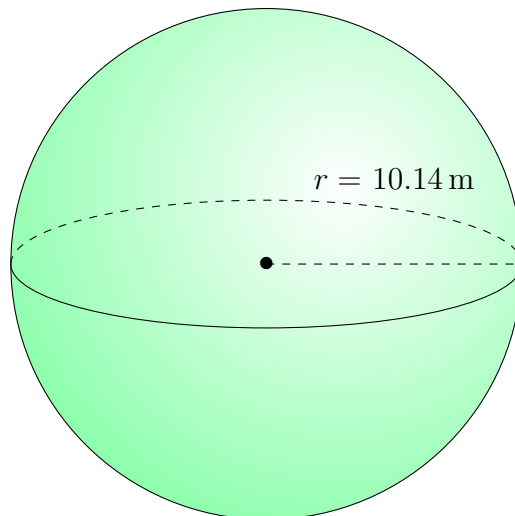
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



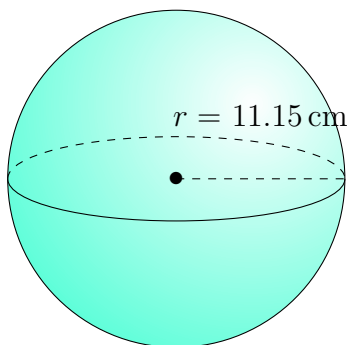
Surface Area: 760.62 yd^2
Volume: 1972.55 yd^3

2.



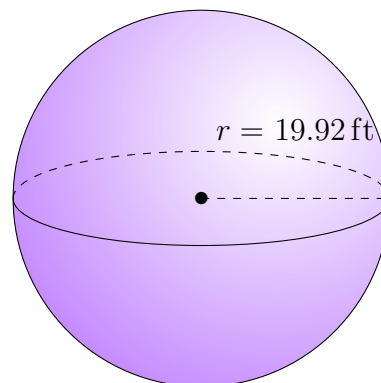
Surface Area: 1292.07 m^2
Volume: 4367.19 m^3

3.



Surface Area: 1562.28 cm^2
Volume: 5806.48 cm^3

4.



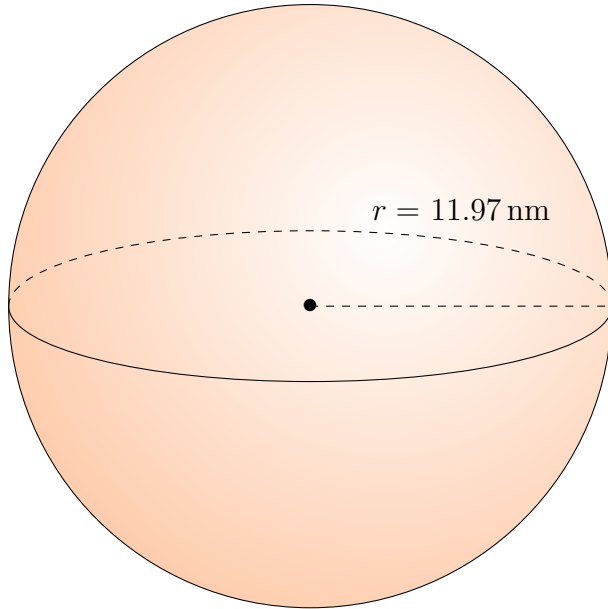
Surface Area: 4986.42 ft^2
Volume: $33,109.80 \text{ ft}^3$

Surface Area and Volume of Spheres (B)

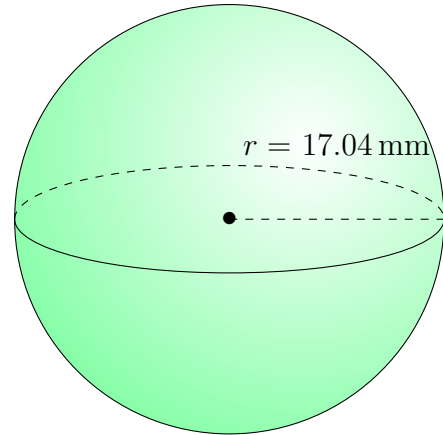
Calculate the surface area and volume for each sphere.

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

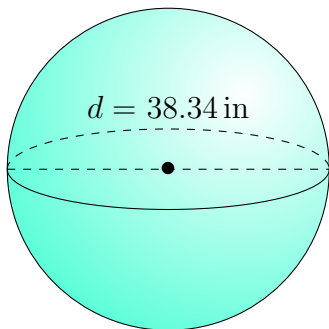
1.



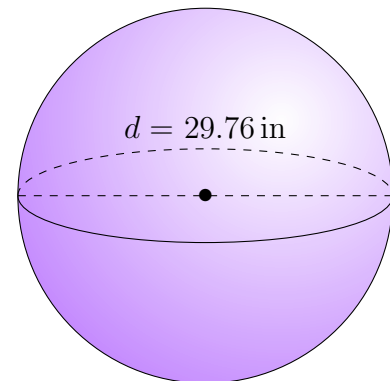
2.



3.



4.

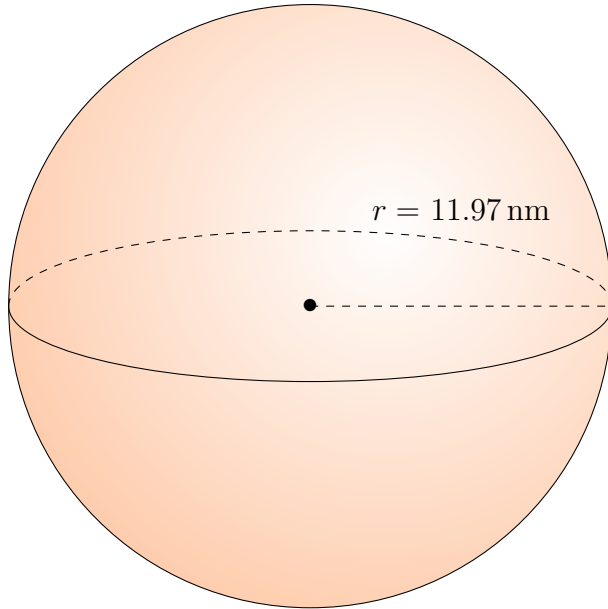


Surface Area and Volume of Spheres (B) Answers

Calculate the surface area and volume for each sphere.

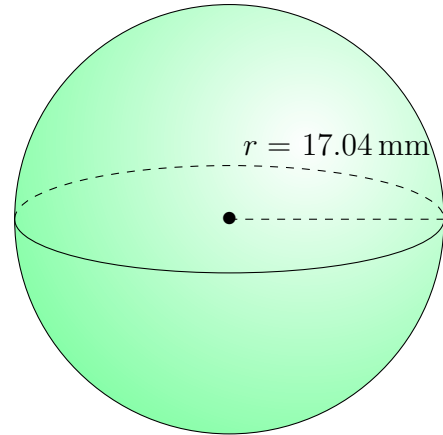
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



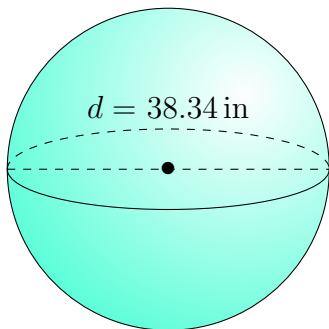
$$\text{Surface Area: } 1800.52 \text{ nm}^2$$
$$\text{Volume: } 7184.08 \text{ nm}^3$$

2.



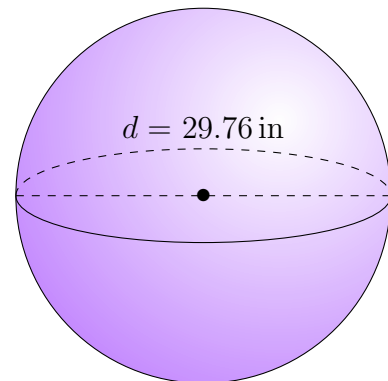
$$\text{Surface Area: } 3648.79 \text{ mm}^2$$
$$\text{Volume: } 20,725.14 \text{ mm}^3$$

3.



$$\text{Surface Area: } 4618.00 \text{ in}^2$$
$$\text{Volume: } 29,509.03 \text{ in}^3$$

4.



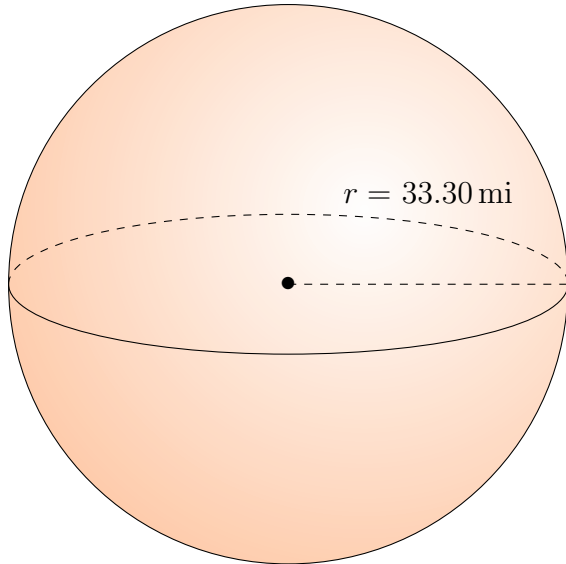
$$\text{Surface Area: } 2782.38 \text{ in}^2$$
$$\text{Volume: } 13,800.58 \text{ in}^3$$

Surface Area and Volume of Spheres (C)

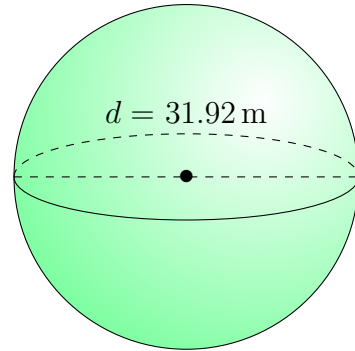
Calculate the surface area and volume for each sphere.

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

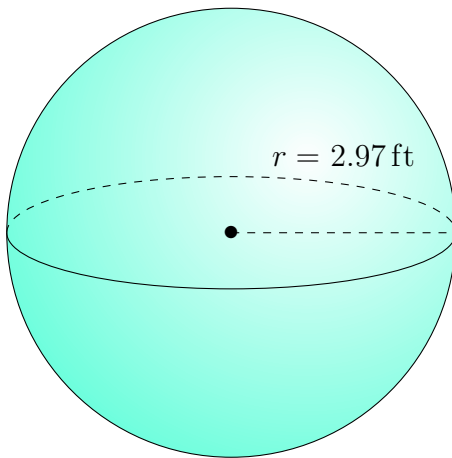
1.



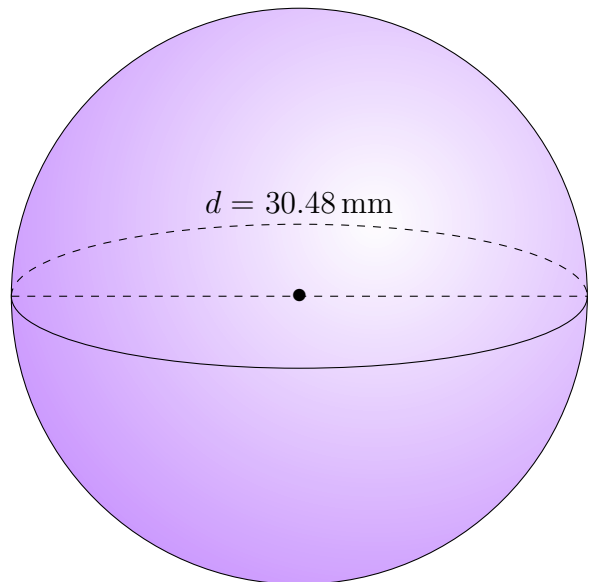
2.



3.



4.

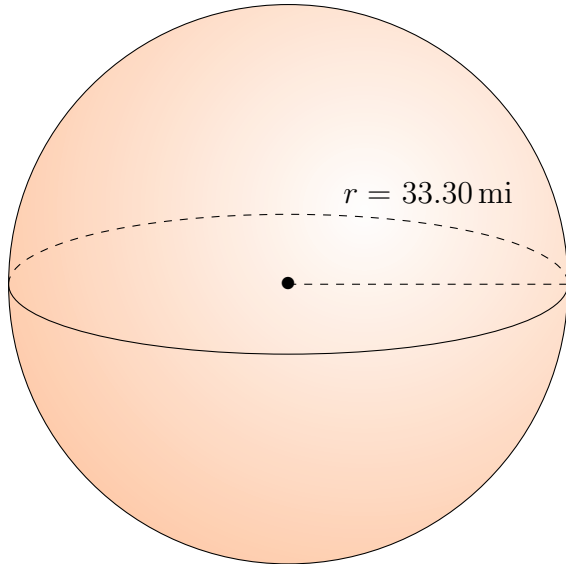


Surface Area and Volume of Spheres (C) Answers

Calculate the surface area and volume for each sphere.

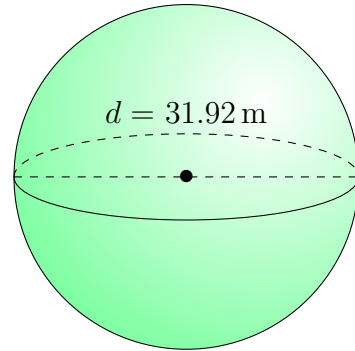
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



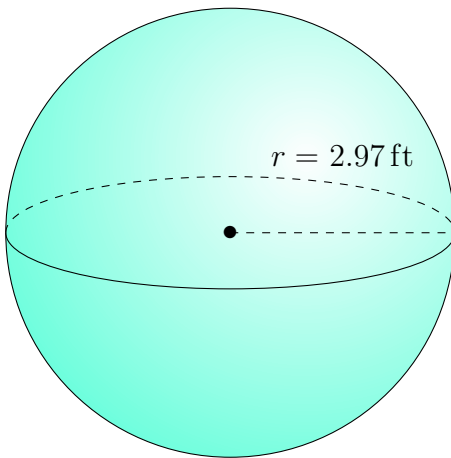
$$\begin{aligned} \text{Surface Area: } & 13,934.72 \text{ mi}^2 \\ \text{Volume: } & 154,675.42 \text{ mi}^3 \end{aligned}$$

2.



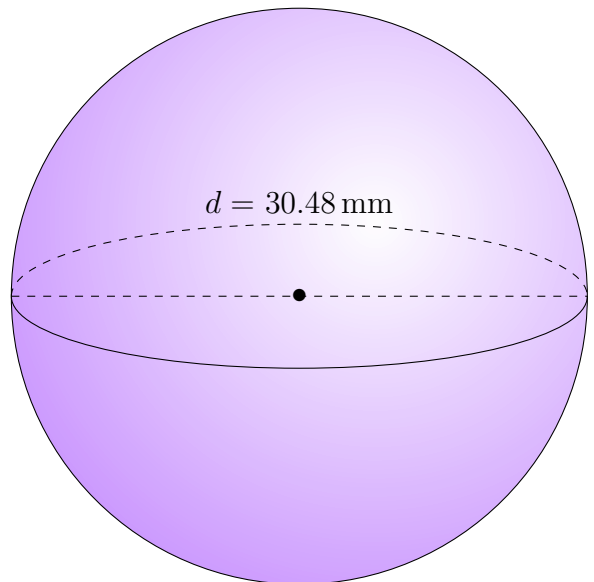
$$\begin{aligned} \text{Surface Area: } & 3200.93 \text{ m}^2 \\ \text{Volume: } & 17,028.93 \text{ m}^3 \end{aligned}$$

3.



$$\begin{aligned} \text{Surface Area: } & 110.85 \text{ ft}^2 \\ \text{Volume: } & 109.74 \text{ ft}^3 \end{aligned}$$

4.



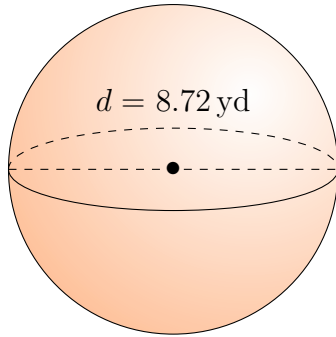
$$\begin{aligned} \text{Surface Area: } & 2918.64 \text{ mm}^2 \\ \text{Volume: } & 14,826.67 \text{ mm}^3 \end{aligned}$$

Surface Area and Volume of Spheres (D)

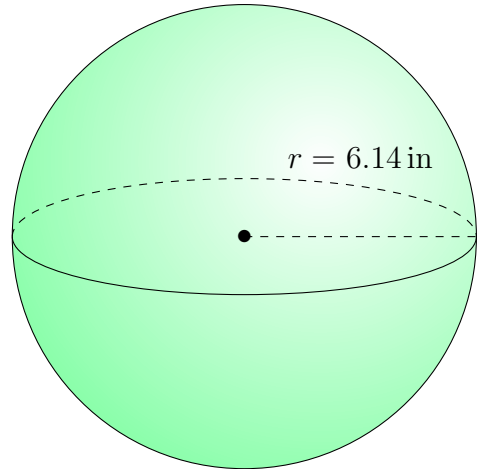
Calculate the surface area and volume for each sphere.

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

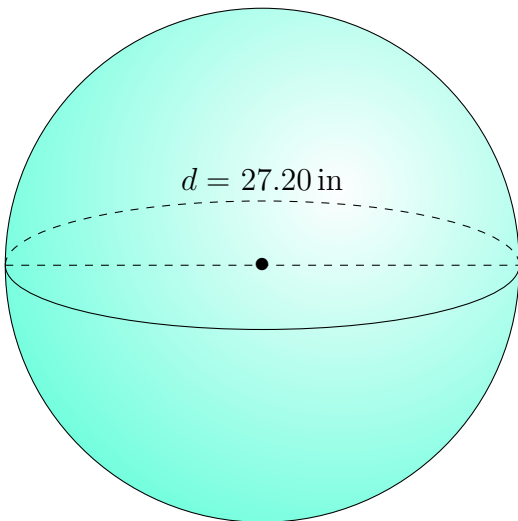
1.



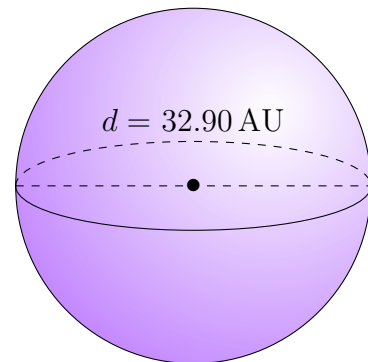
2.



3.



4.

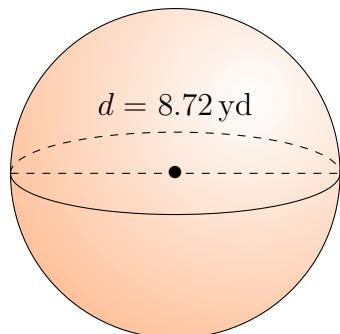


Surface Area and Volume of Spheres (D) Answers

Calculate the surface area and volume for each sphere.

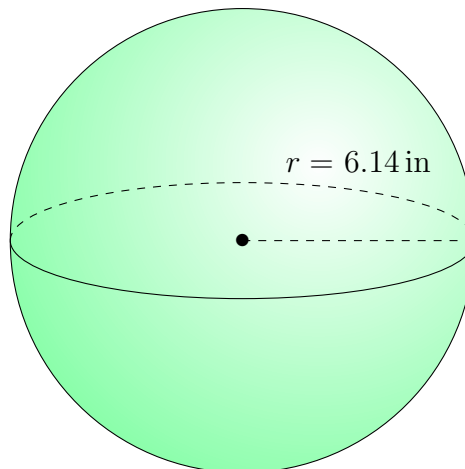
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



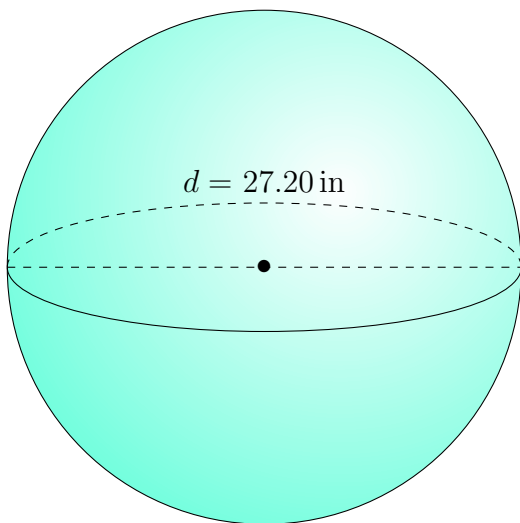
Surface Area: 238.88 yd^2
Volume: 347.17 yd^3

2.



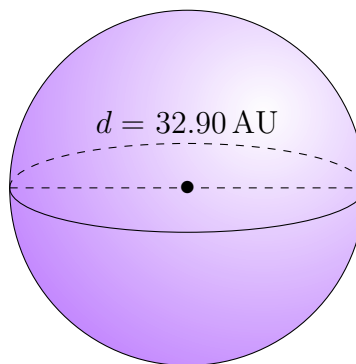
Surface Area: 473.75 in^2
Volume: 969.60 in^3

3.



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

4.



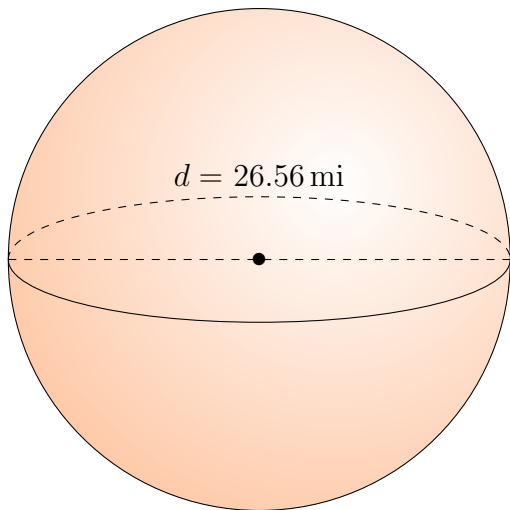
Surface Area: 3400.49 AU^2
Volume: $18,646.03 \text{ AU}^3$

Surface Area and Volume of Spheres (E)

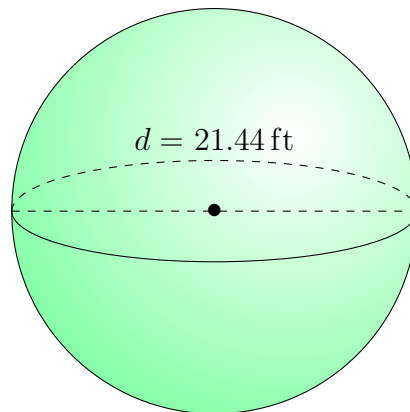
Calculate the surface area and volume for each sphere.

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

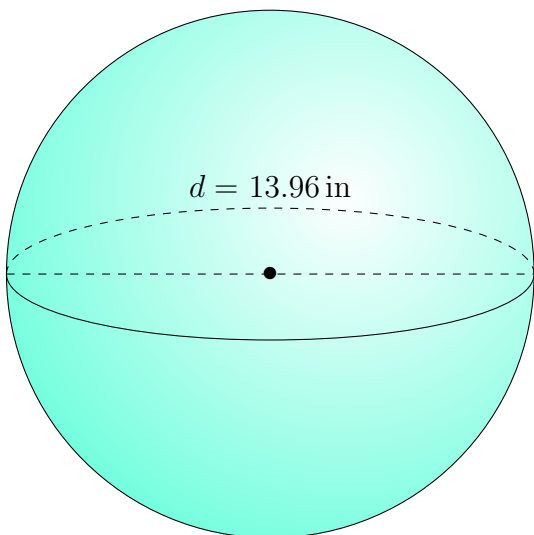
1.



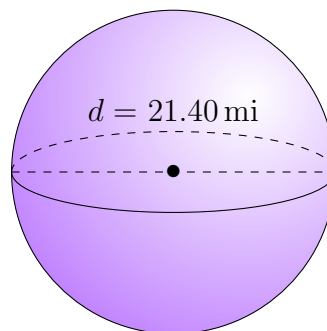
2.



3.



4.

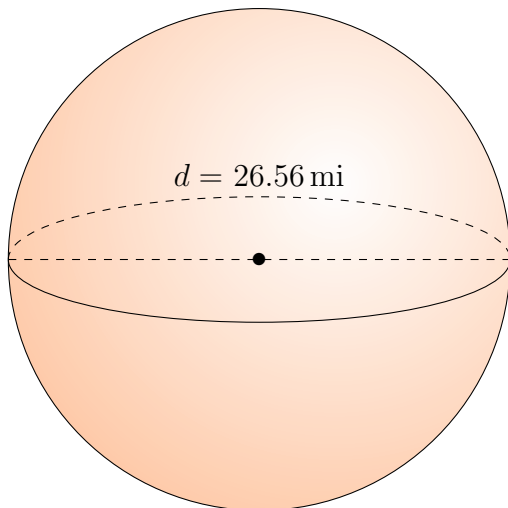


Surface Area and Volume of Spheres (E) Answers

Calculate the surface area and volume for each sphere.

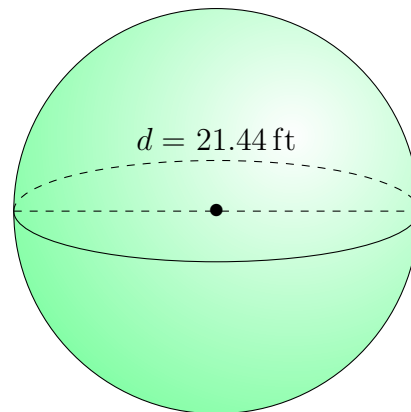
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



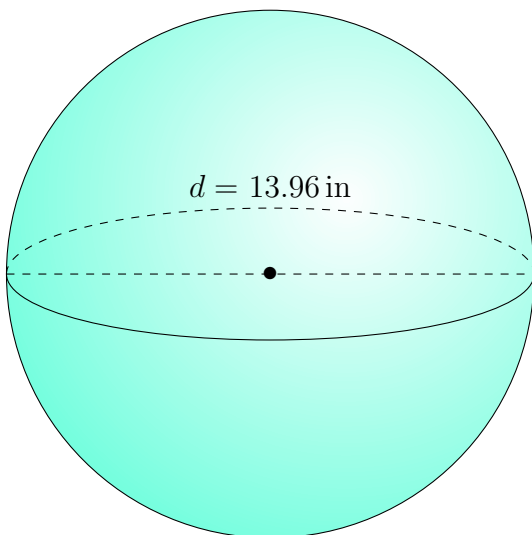
Surface Area: 2216.19 mi^2
Volume: 9810.31 mi^3

2.



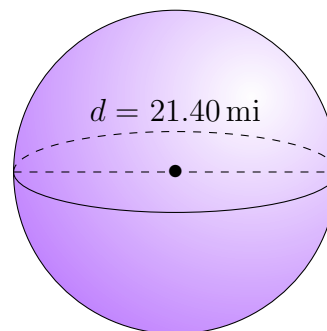
Surface Area: 1444.11 ft^2
Volume: 5160.28 ft^3

3.



Surface Area: 612.24 in^2
Volume: 1424.48 in^3

4.



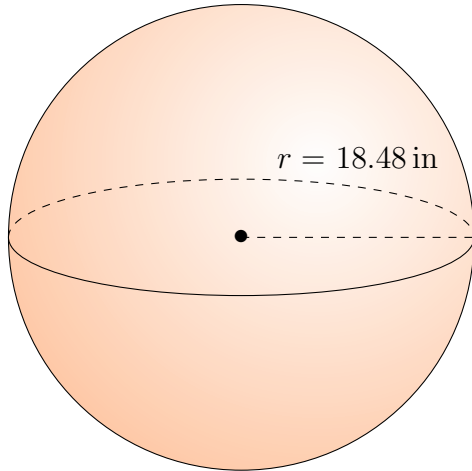
Surface Area: 1438.72 mi^2
Volume: 5131.45 mi^3

Surface Area and Volume of Spheres (F)

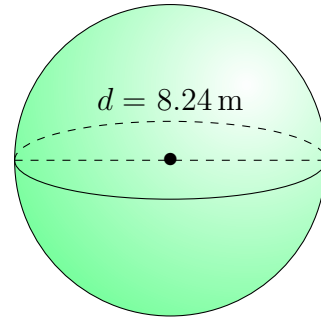
Calculate the surface area and volume for each sphere.

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

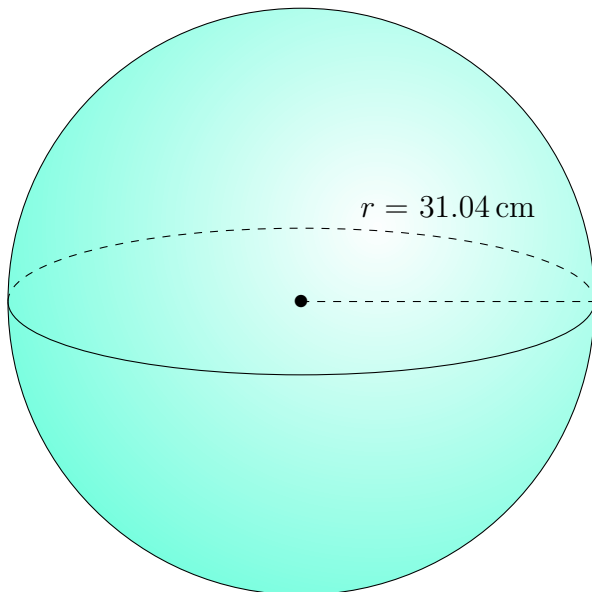
1.



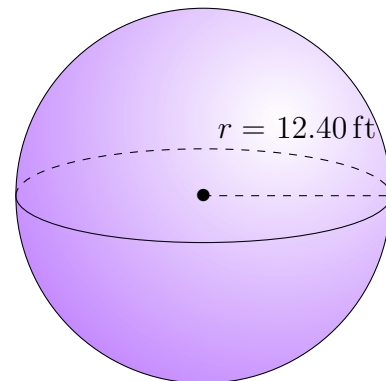
2.



3.



4.

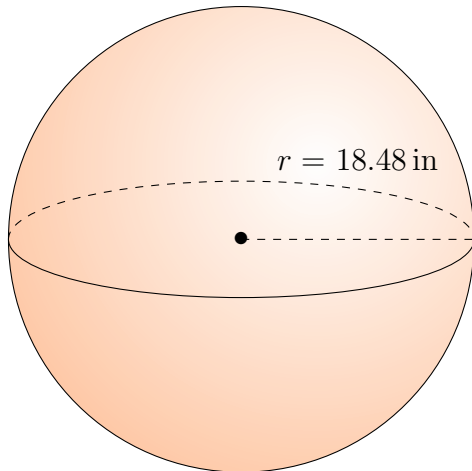


Surface Area and Volume of Spheres (F) Answers

Calculate the surface area and volume for each sphere.

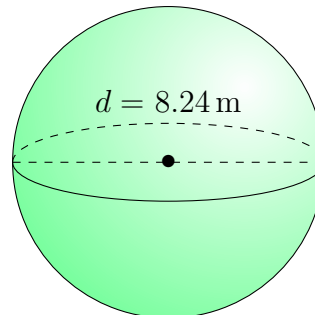
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



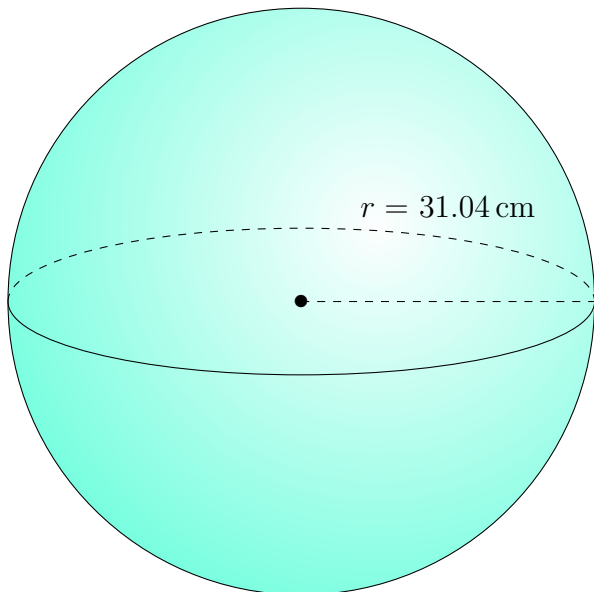
$$\begin{aligned} \text{Surface Area: } & 4291.55 \text{ in}^2 \\ \text{Volume: } & 26,435.92 \text{ in}^3 \end{aligned}$$

2.



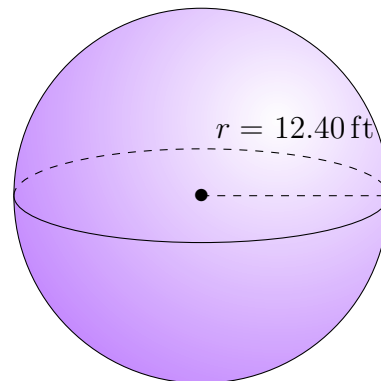
$$\begin{aligned} \text{Surface Area: } & 213.31 \text{ m}^2 \\ \text{Volume: } & 292.94 \text{ m}^3 \end{aligned}$$

3.



$$\begin{aligned} \text{Surface Area: } & 12,107.47 \text{ cm}^2 \\ \text{Volume: } & 125,271.92 \text{ cm}^3 \end{aligned}$$

4.



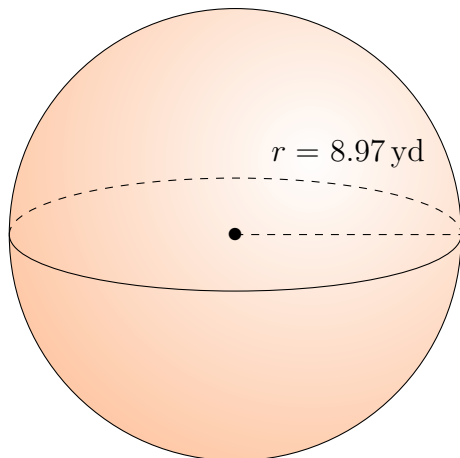
$$\begin{aligned} \text{Surface Area: } & 1932.21 \text{ ft}^2 \\ \text{Volume: } & 7986.45 \text{ ft}^3 \end{aligned}$$

Surface Area and Volume of Spheres (G)

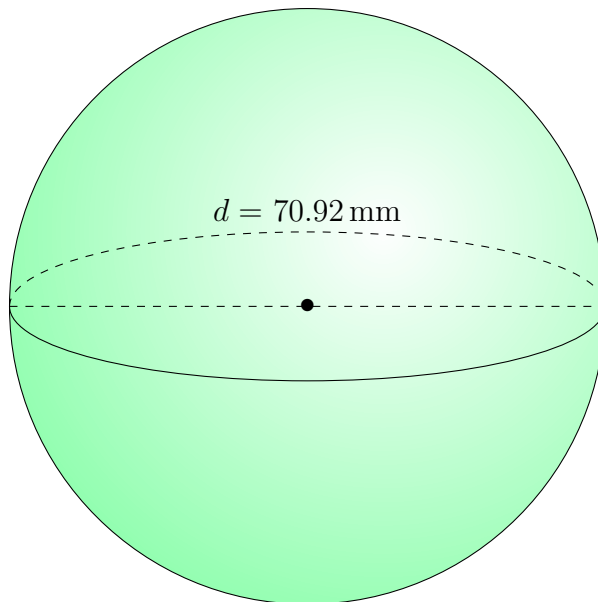
Calculate the surface area and volume for each sphere.

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

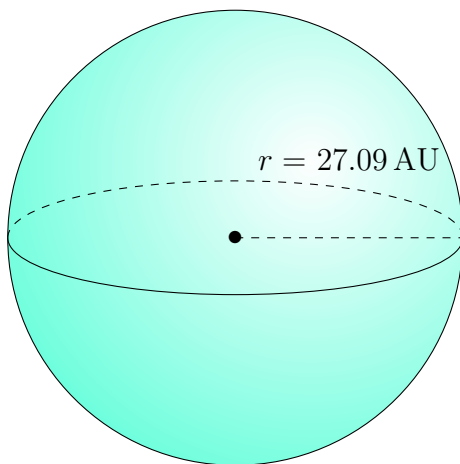
1.



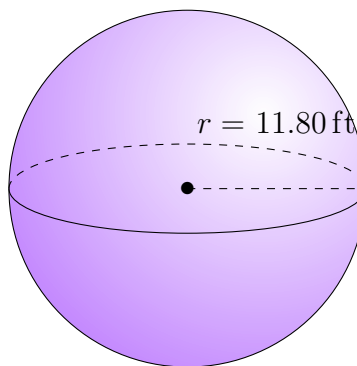
2.



3.



4.

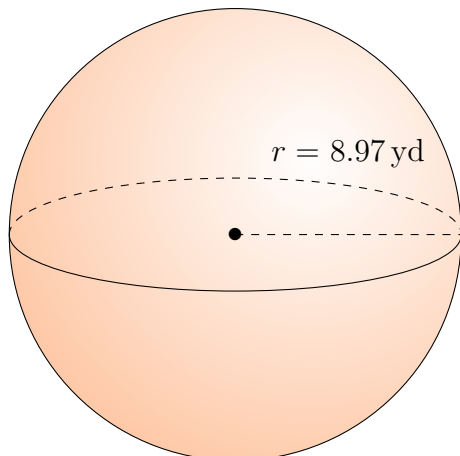


Surface Area and Volume of Spheres (G) Answers

Calculate the surface area and volume for each sphere.

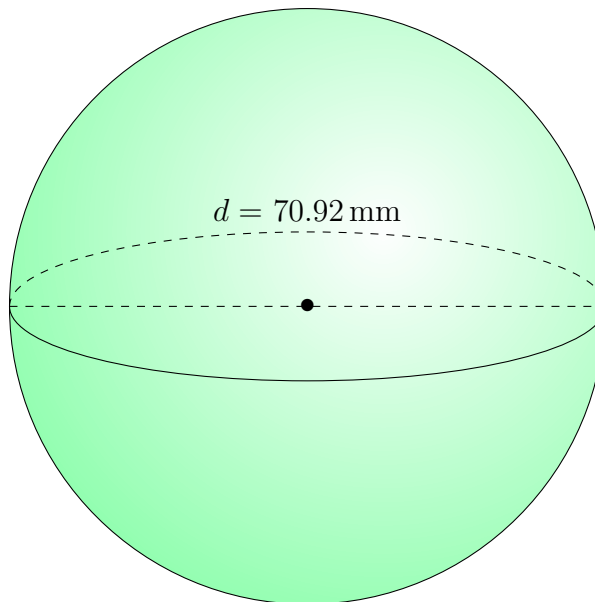
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



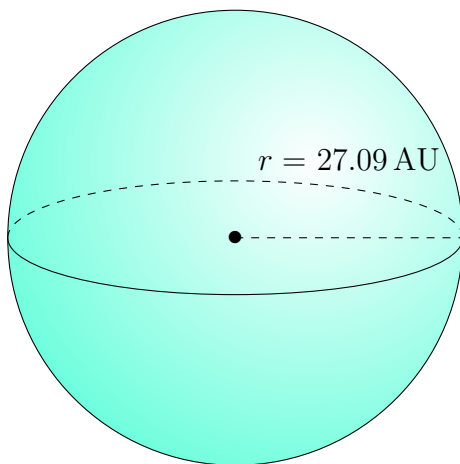
Surface Area: 1011.10 yd^2
Volume: 3023.19 yd^3

2.



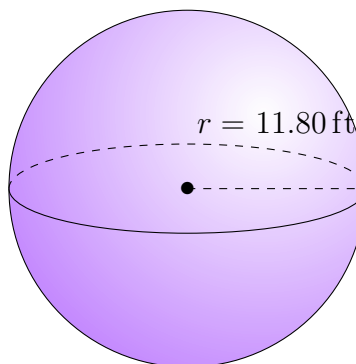
Surface Area: $15,801.10 \text{ mm}^2$
Volume: $186,769.00 \text{ mm}^3$

3.



Surface Area: 9222.06 AU^2
Volume: $83,275.19 \text{ AU}^3$

4.



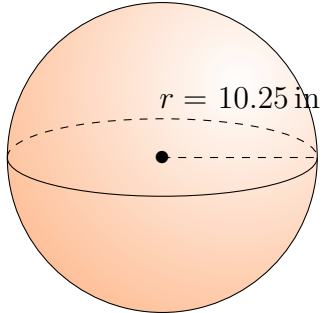
Surface Area: 1749.74 ft^2
Volume: 6882.32 ft^3

Surface Area and Volume of Spheres (H)

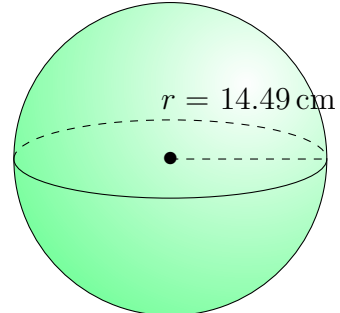
Calculate the surface area and volume for each sphere.

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

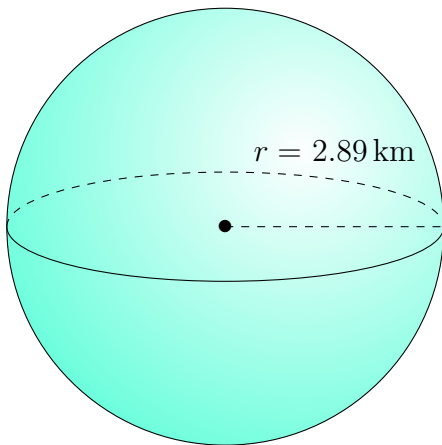
1.



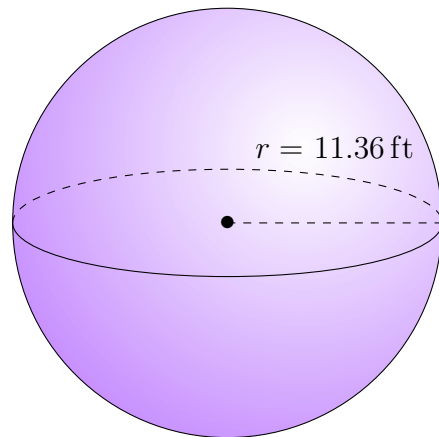
2.



3.



4.

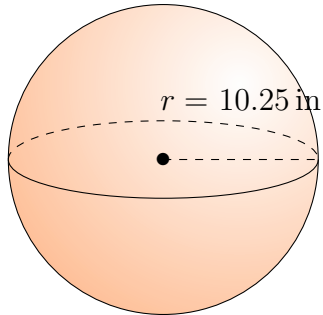


Surface Area and Volume of Spheres (H) Answers

Calculate the surface area and volume for each sphere.

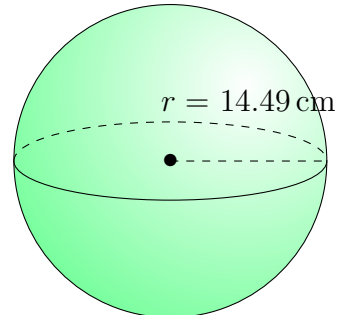
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



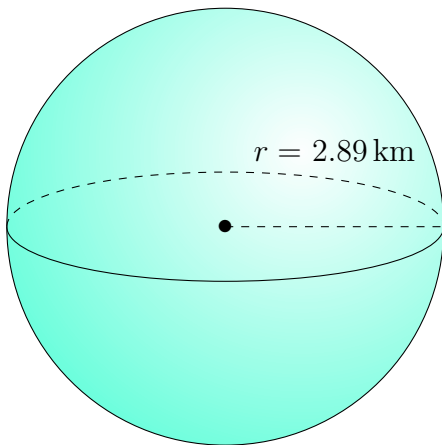
Surface Area: 1320.25 in^2
Volume: 4510.87 in^3

2.



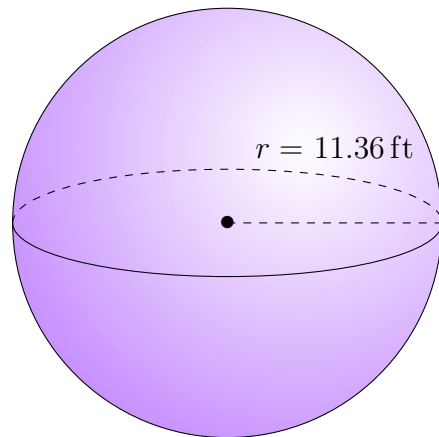
Surface Area: 2638.44 cm^2
Volume: $12,743.65 \text{ cm}^3$

3.



Surface Area: 104.96 km^2
Volume: 101.11 km^3

4.



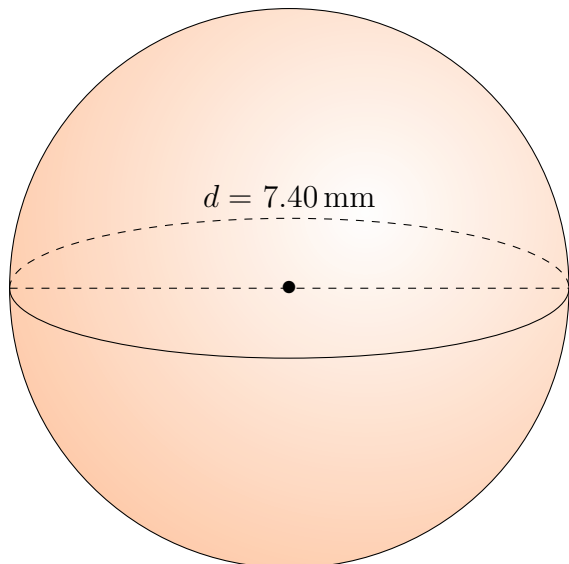
Surface Area: 1621.69 ft^2
Volume: 6140.78 ft^3

Surface Area and Volume of Spheres (I)

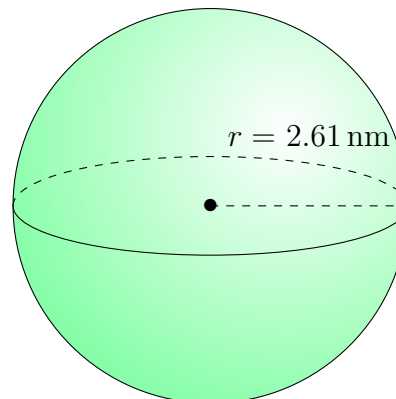
Calculate the surface area and volume for each sphere.

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

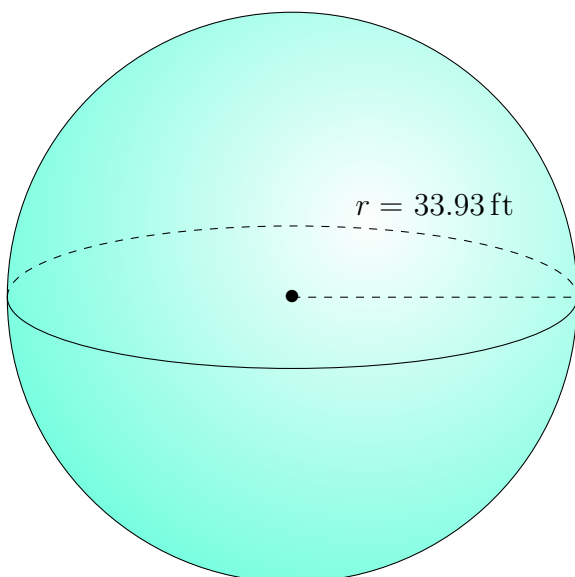
1.



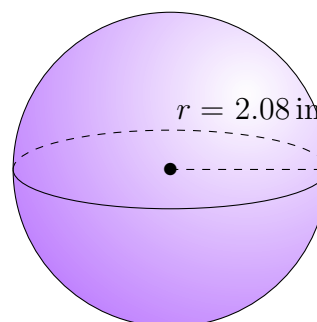
2.



3.



4.

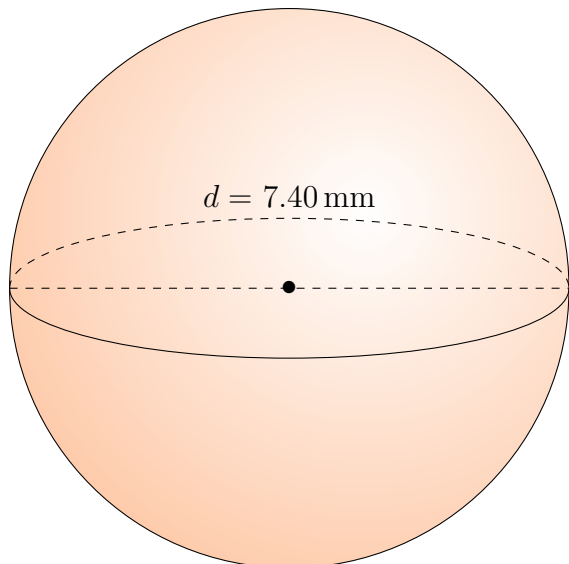


Surface Area and Volume of Spheres (I) Answers

Calculate the surface area and volume for each sphere.

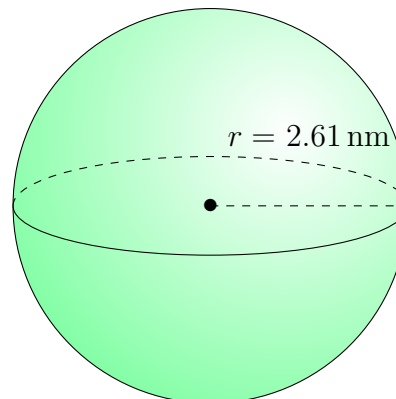
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



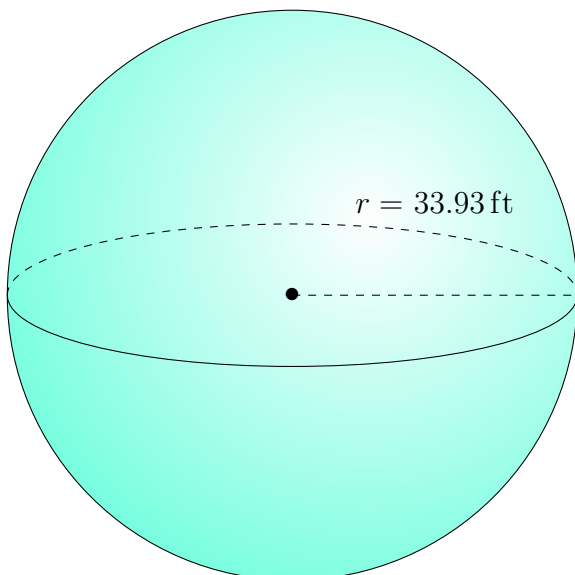
$$\begin{aligned} \text{Surface Area: } & 172.03 \text{ mm}^2 \\ \text{Volume: } & 212.17 \text{ mm}^3 \end{aligned}$$

2.



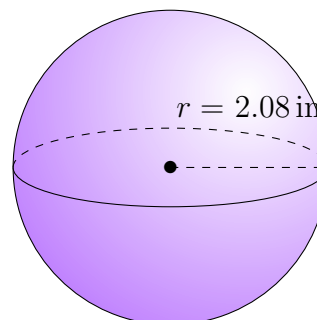
$$\begin{aligned} \text{Surface Area: } & 85.60 \text{ nm}^2 \\ \text{Volume: } & 74.47 \text{ nm}^3 \end{aligned}$$

3.



$$\begin{aligned} \text{Surface Area: } & 14,466.97 \text{ ft}^2 \\ \text{Volume: } & 163,621.43 \text{ ft}^3 \end{aligned}$$

4.



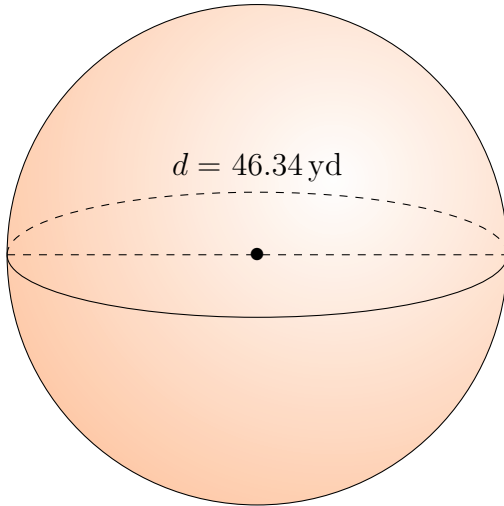
$$\begin{aligned} \text{Surface Area: } & 54.37 \text{ in}^2 \\ \text{Volume: } & 37.69 \text{ in}^3 \end{aligned}$$

Surface Area and Volume of Spheres (J)

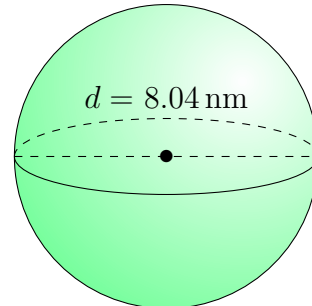
Calculate the surface area and volume for each sphere.

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

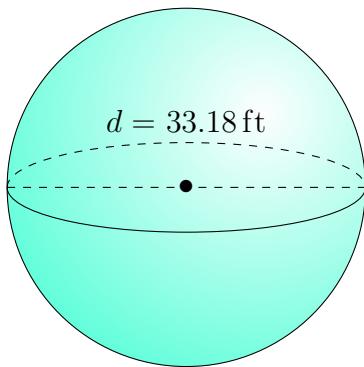
1.



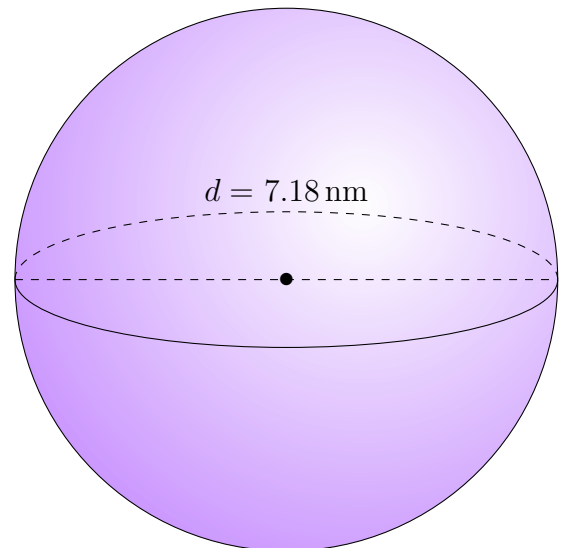
2.



3.



4.

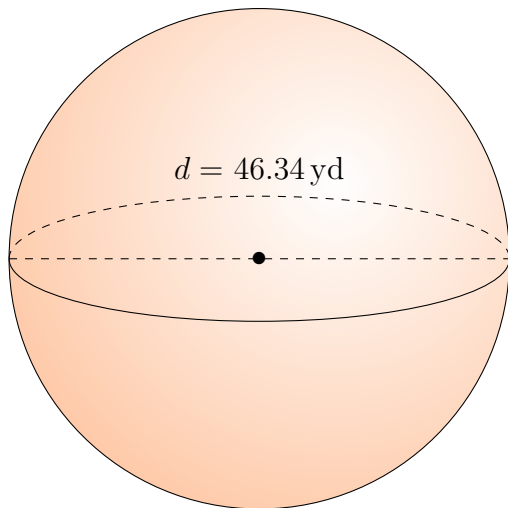


Surface Area and Volume of Spheres (J) Answers

Calculate the surface area and volume for each sphere.

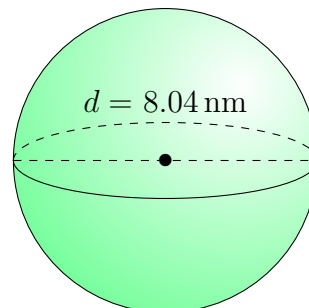
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



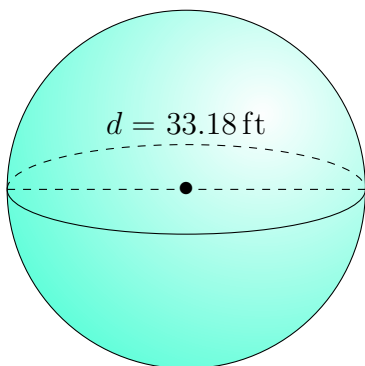
Surface Area: 6746.24 yd^2
Volume: $52,103.48 \text{ yd}^3$

2.



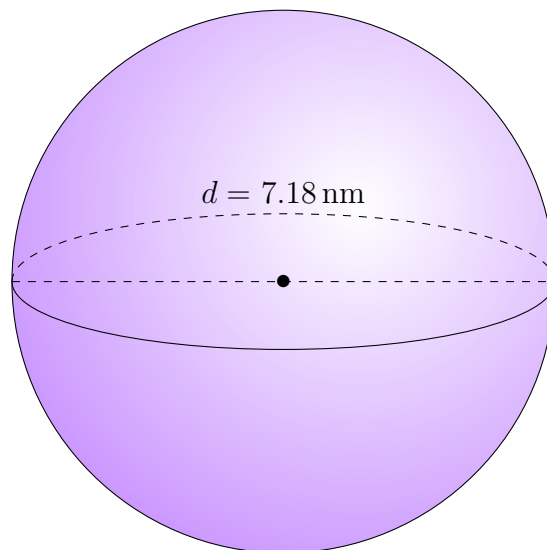
Surface Area: 203.08 nm^2
Volume: 272.12 nm^3

3.



Surface Area: 3458.62 ft^2
Volume: $19,126.16 \text{ ft}^3$

4.



Surface Area: 161.96 nm^2
Volume: 193.81 nm^3