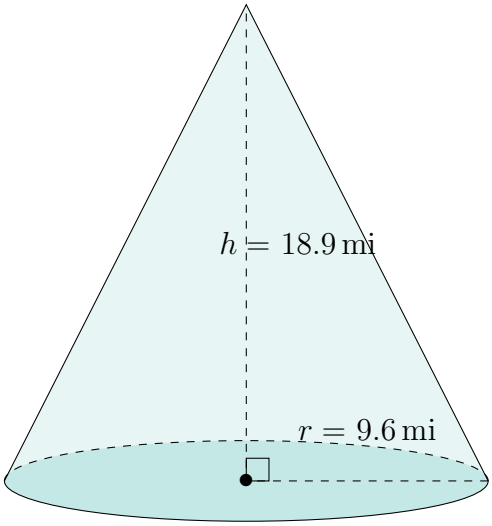
Surface Area and Volume of Cones (A)

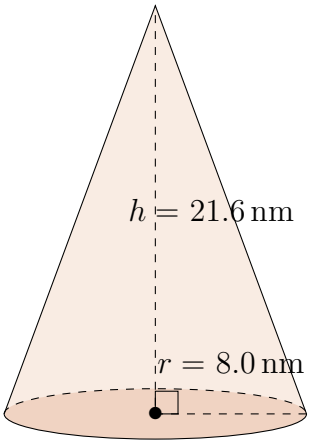
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

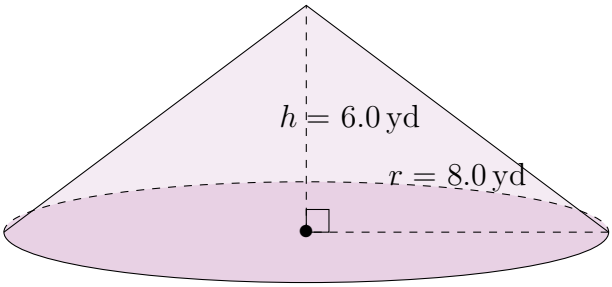
1.



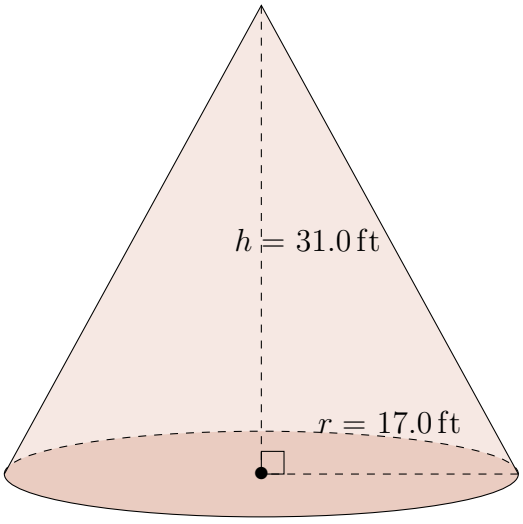
2.



3.



4.

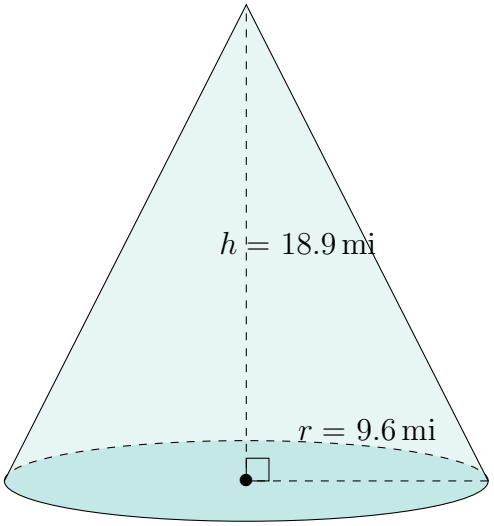


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

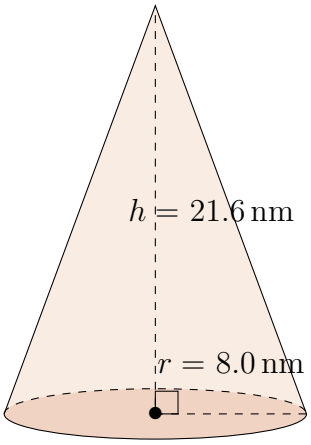
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



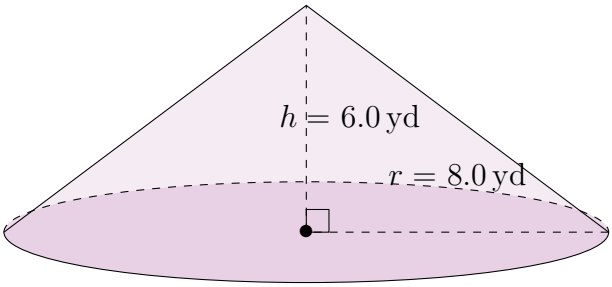
Surface Area: 928.9 mi^2
Volume: 1824.0 mi^3

2.



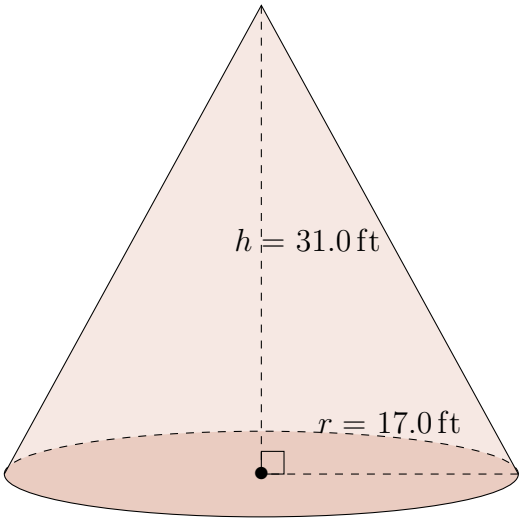
Surface Area: 780.0 nm^2
Volume: 1447.6 nm^3

3.



Surface Area: 452.4 yd^2
Volume: 402.1 yd^3

4.



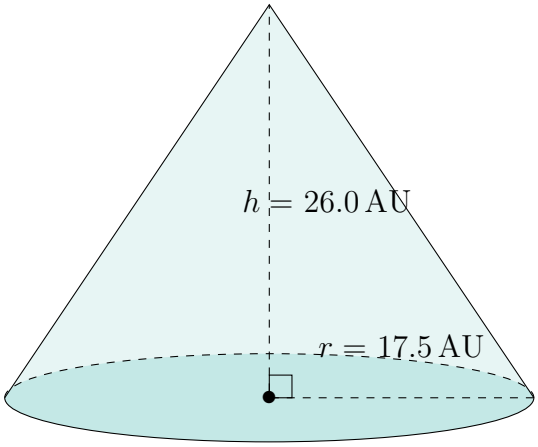
Surface Area: 2796.1 ft^2
Volume: 9381.8 ft^3

Surface Area and Volume of Cones (B)

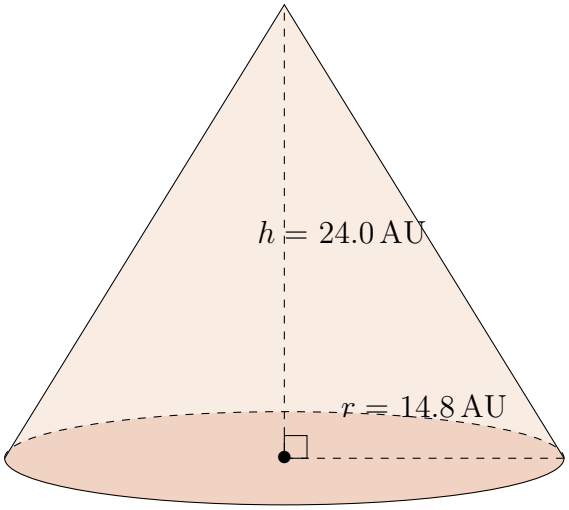
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

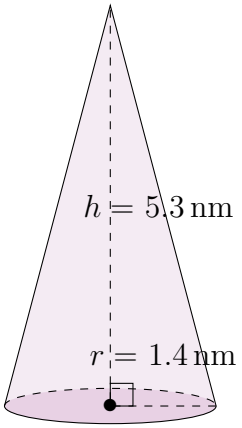
1.



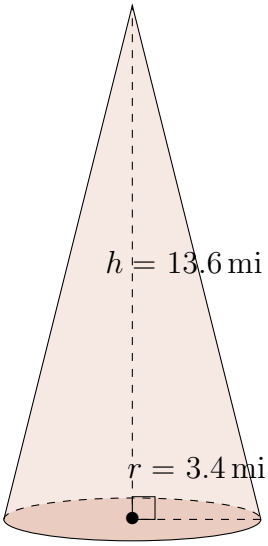
2.



3.



4.

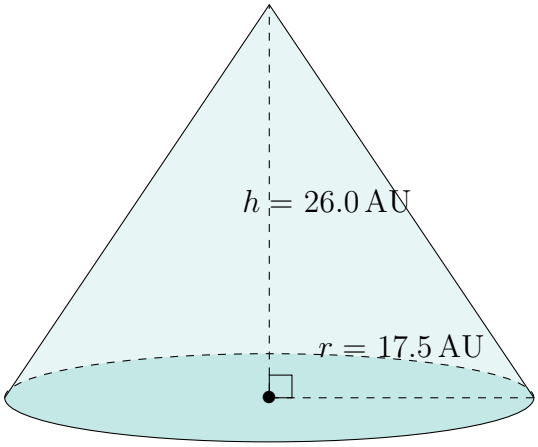


Surface Area and Volume of Cones (B) Answers

Calculate the surface area and volume for each cone.

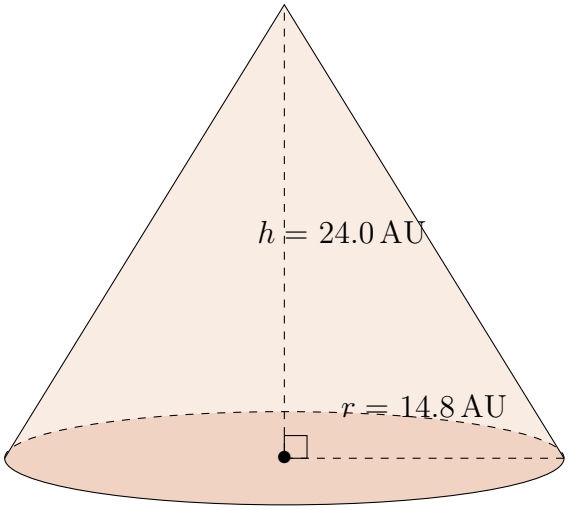
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



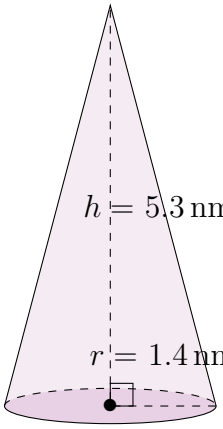
Surface Area: 2685.2 AU^2
Volume: 8338.3 AU^3

2.



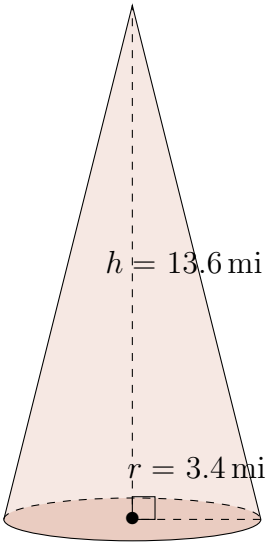
Surface Area: 1999.1 AU^2
Volume: 5505.1 AU^3

3.



Surface Area: 30.3 nm^2
Volume: 10.9 nm^3

4.



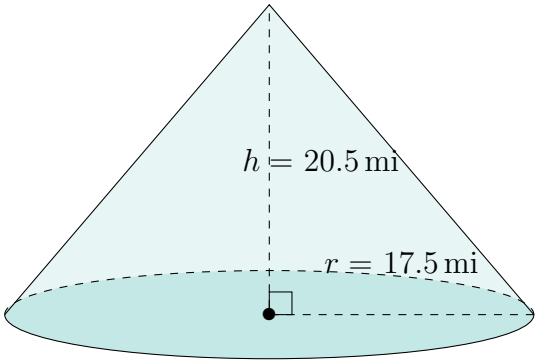
Surface Area: 186.1 mi^2
Volume: 164.6 mi^3

Surface Area and Volume of Cones (C)

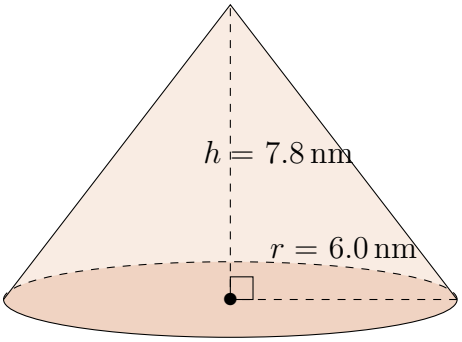
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

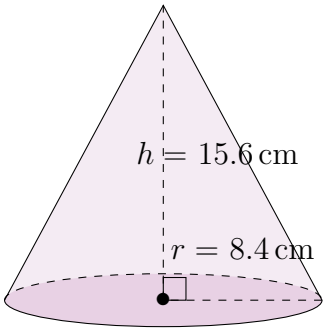
1.



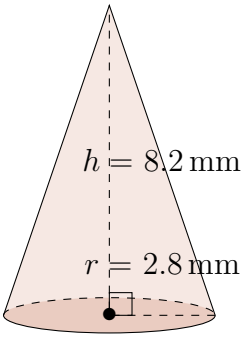
2.



3.



4.

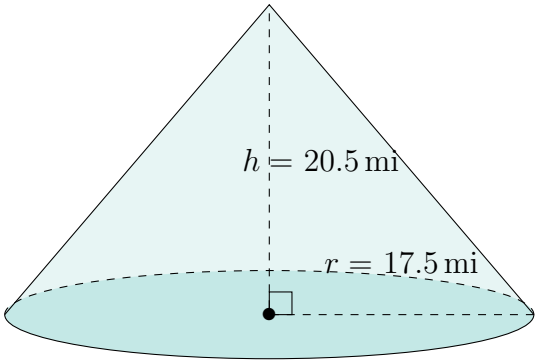


Surface Area and Volume of Cones (C) Answers

Calculate the surface area and volume for each cone.

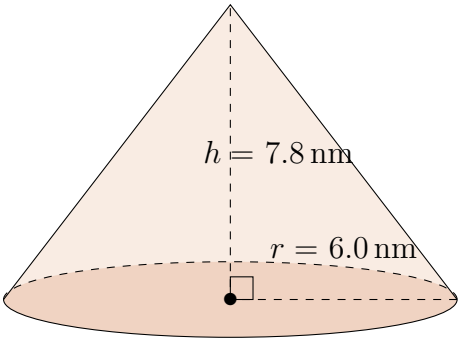
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



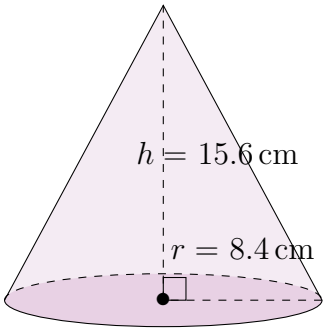
Surface Area: 2444.0 mi^2
Volume: 6574.4 mi^3

2.



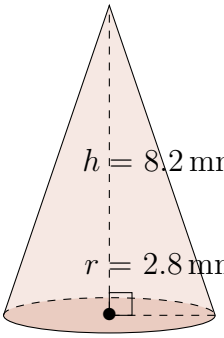
Surface Area: 298.6 nm^2
Volume: 294.1 nm^3

3.



Surface Area: 689.2 cm^2
Volume: 1152.7 cm^3

4.



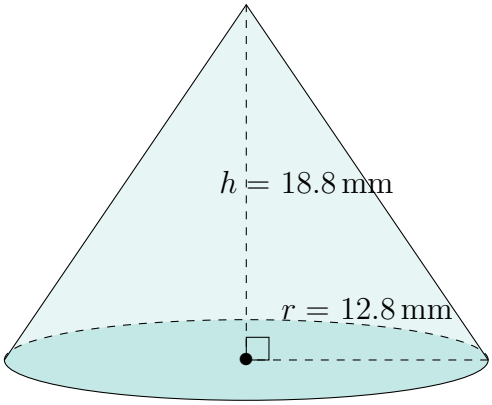
Surface Area: 100.9 mm^2
Volume: 67.3 mm^3

Surface Area and Volume of Cones (D)

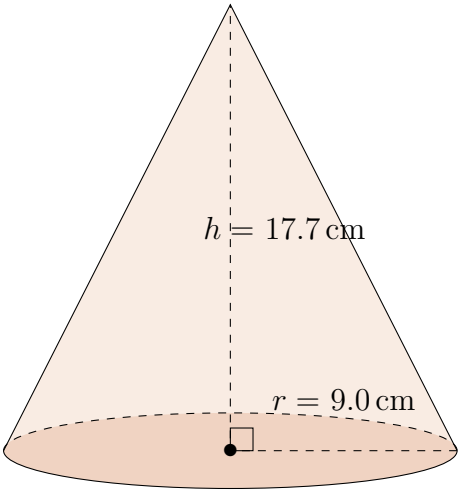
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

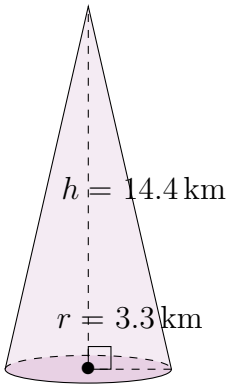
1.



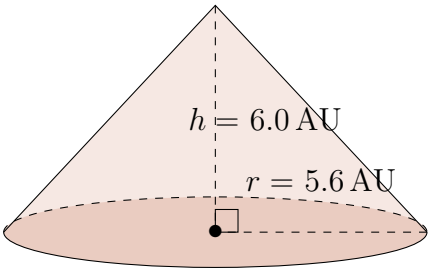
2.



3.



4.

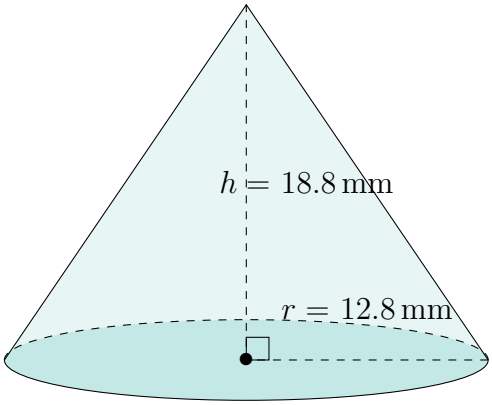


Surface Area and Volume of Cones (D) Answers

Calculate the surface area and volume for each cone.

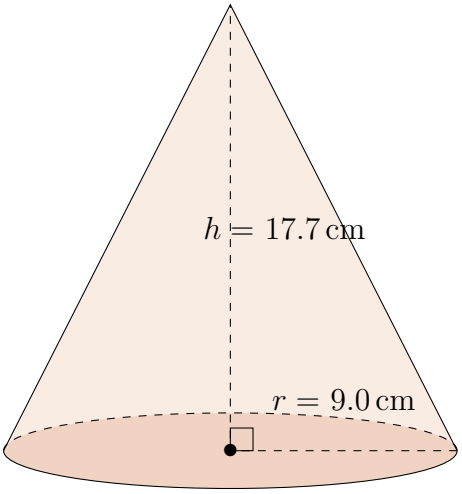
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



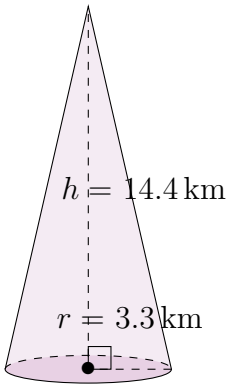
Surface Area: $1429.3\,\text{mm}^2$
Volume: $3225.6\,\text{mm}^3$

2.



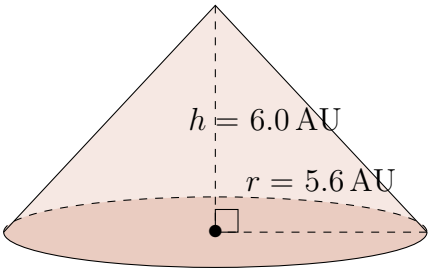
Surface Area: $815.9\,\text{cm}^2$
Volume: $1501.4\,\text{cm}^3$

3.



Surface Area: $187.4\,\text{km}^2$
Volume: $164.2\,\text{km}^3$

4.



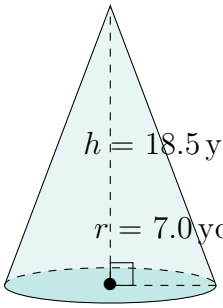
Surface Area: $242.9\,\text{AU}^2$
Volume: $197.0\,\text{AU}^3$

Surface Area and Volume of Cones (E)

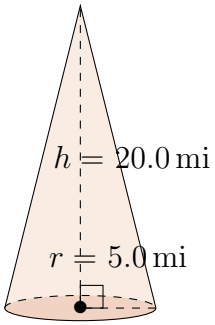
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

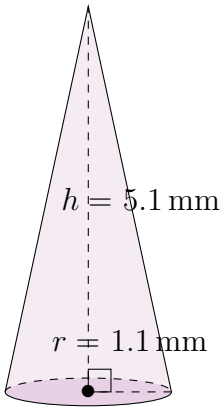
1.



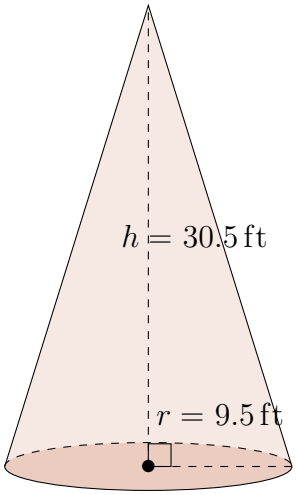
2.



3.



4.

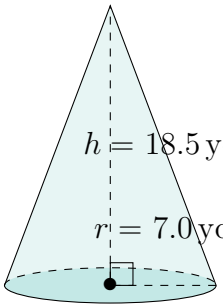


Surface Area and Volume of Cones (E) Answers

Calculate the surface area and volume for each cone.

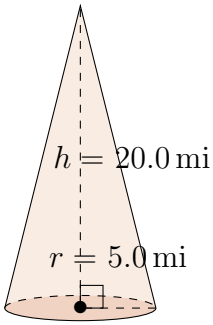
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



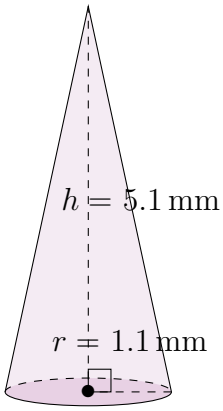
Surface Area: $588.9\,\text{yd}^2$
Volume: $949.3\,\text{yd}^3$

2.



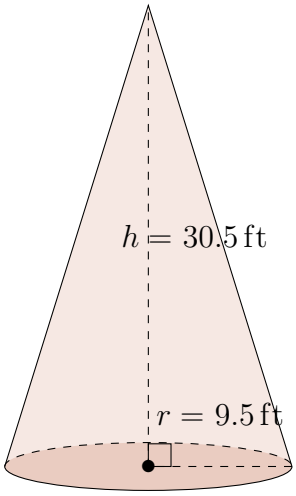
Surface Area: $402.4\,\text{mi}^2$
Volume: $523.6\,\text{mi}^3$

3.



Surface Area: $21.8\,\text{mm}^2$
Volume: $6.5\,\text{mm}^3$

4.



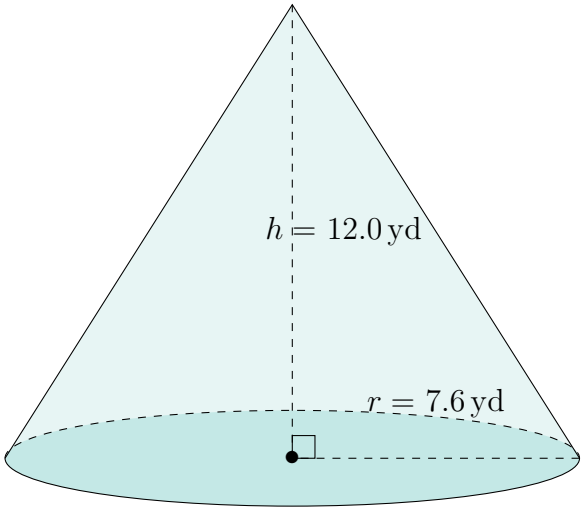
Surface Area: $1236.9\,\text{ft}^2$
Volume: $2882.5\,\text{ft}^3$

Surface Area and Volume of Cones (F)

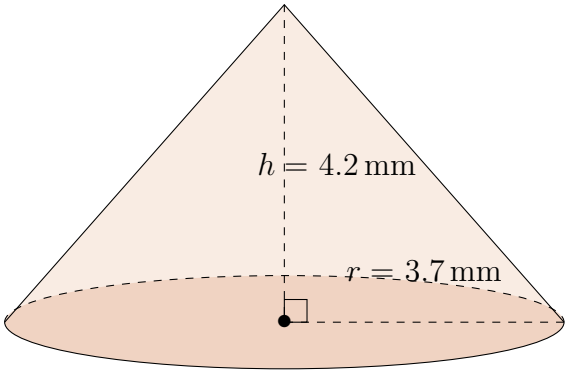
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

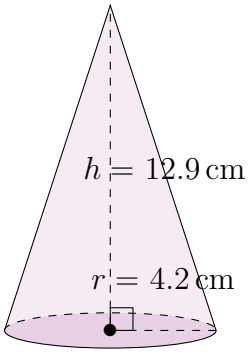
1.



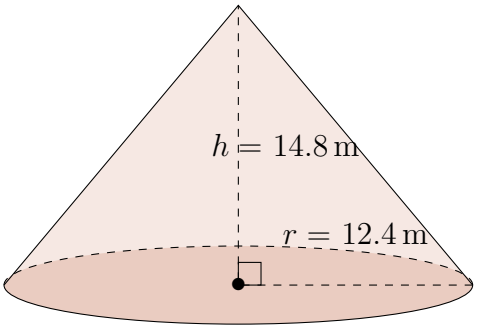
2.



3.



4.

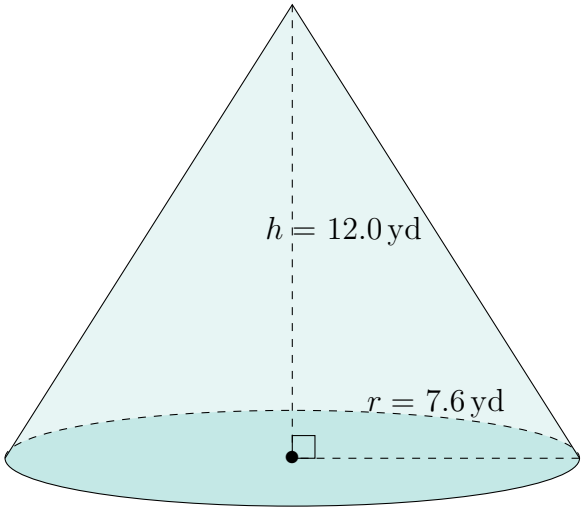


Surface Area and Volume of Cones (F) Answers

Calculate the surface area and volume for each cone.

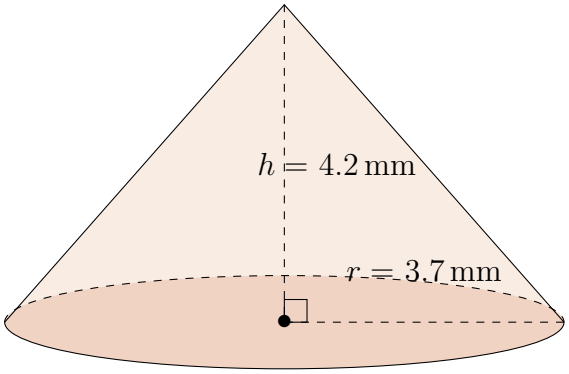
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



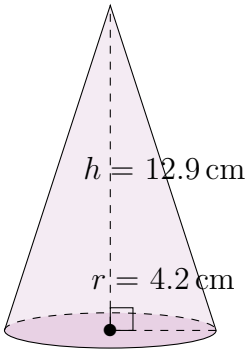
Surface Area: $520.6\,\text{yd}^2$
Volume: $725.8\,\text{yd}^3$

2.



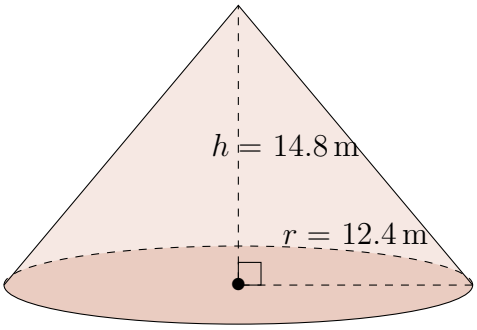
Surface Area: $108.1\,\text{mm}^2$
Volume: $60.2\,\text{mm}^3$

3.



Surface Area: $234.4\,\text{cm}^2$
Volume: $238.3\,\text{cm}^3$

4.



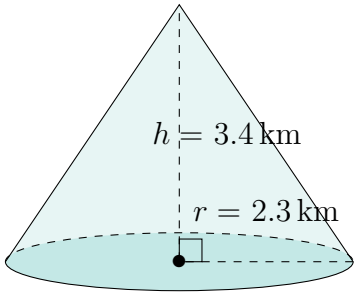
Surface Area: $1235.2\,\text{m}^2$
Volume: $2383.1\,\text{m}^3$

Surface Area and Volume of Cones (G)

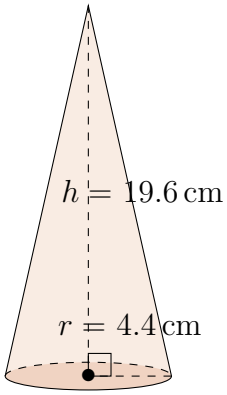
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

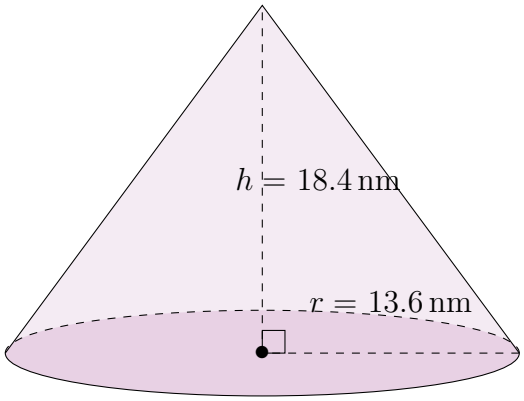
1.



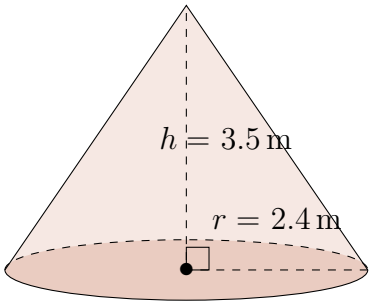
2.



3.



4.

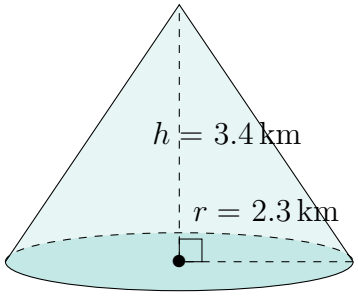


Surface Area and Volume of Cones (G) Answers

Calculate the surface area and volume for each cone.

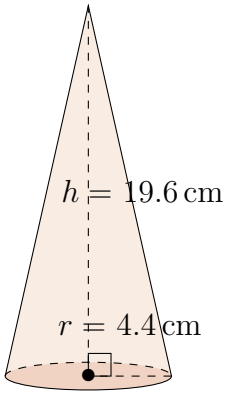
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



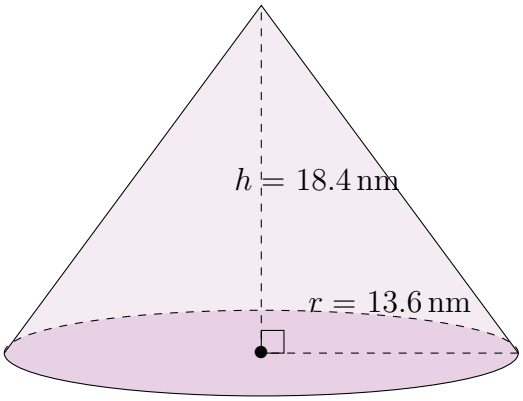
Surface Area: $46.3\,\text{km}^2$
Volume: $18.8\,\text{km}^3$

2.



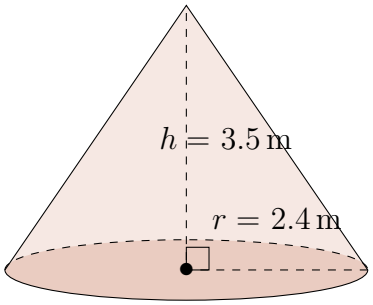
Surface Area: $338.5\,\text{cm}^2$
Volume: $397.4\,\text{cm}^3$

3.



Surface Area: $1558.7\,\text{nm}^2$
Volume: $3563.9\,\text{nm}^3$

4.



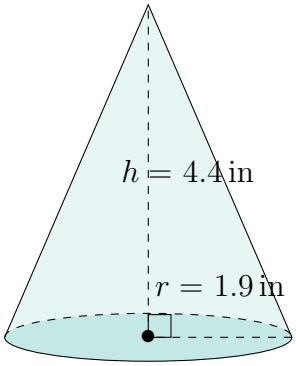
Surface Area: $50.1\,\text{m}^2$
Volume: $21.1\,\text{m}^3$

Surface Area and Volume of Cones (H)

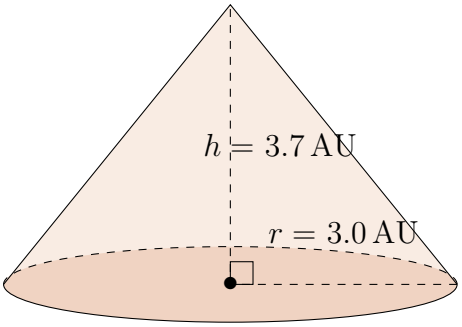
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

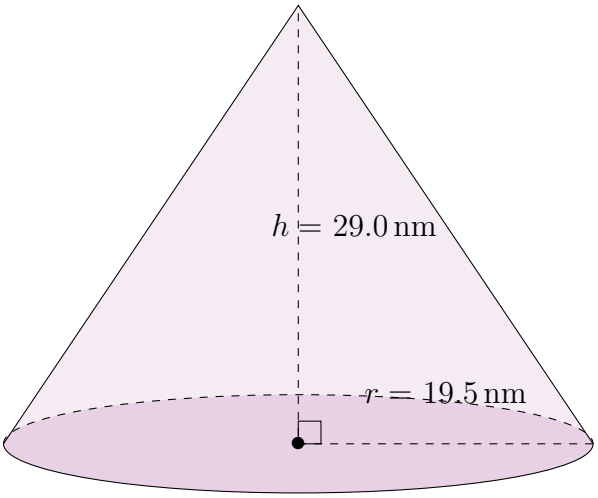
1.



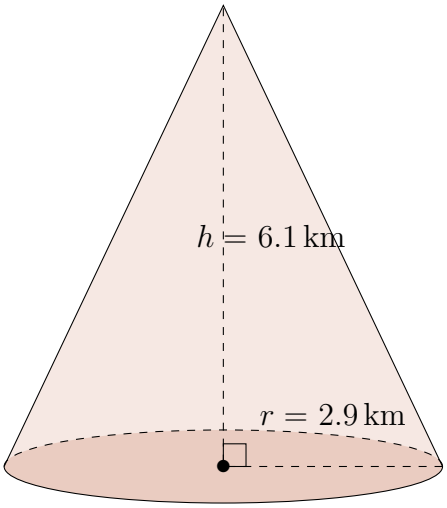
2.



3.



4.

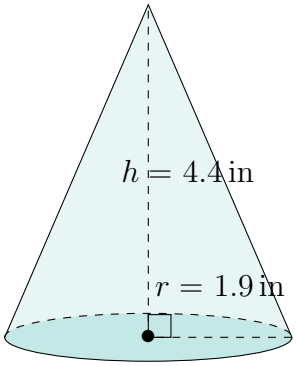


Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

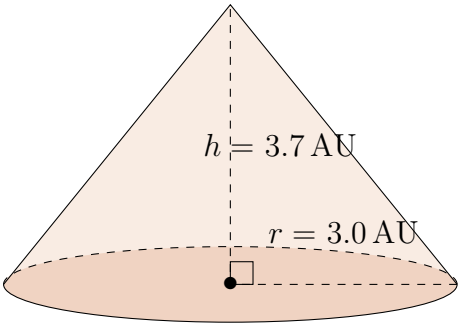
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



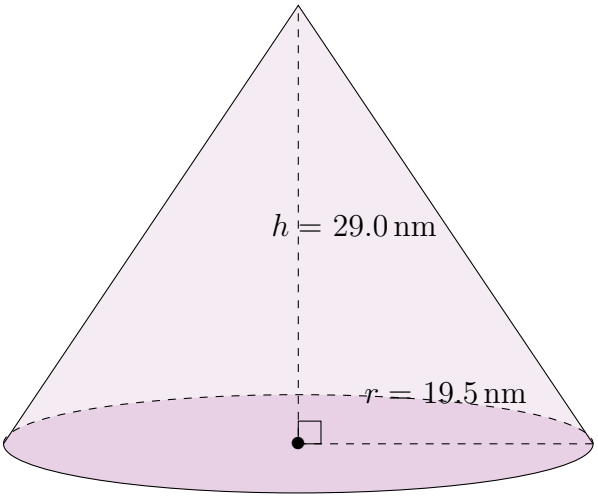
Surface Area: $39.9\,\text{in}^2$
Volume: $16.6\,\text{in}^3$

2.



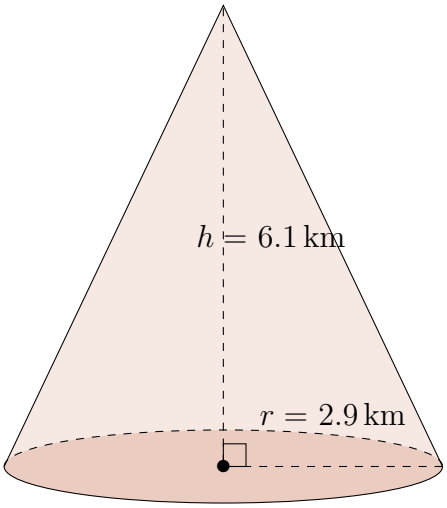
Surface Area: $73.2\,\text{AU}^2$
Volume: $34.9\,\text{AU}^3$

3.



Surface Area: $3335.4\,\text{nm}^2$
Volume: $11{,}547.7\,\text{nm}^3$

4.



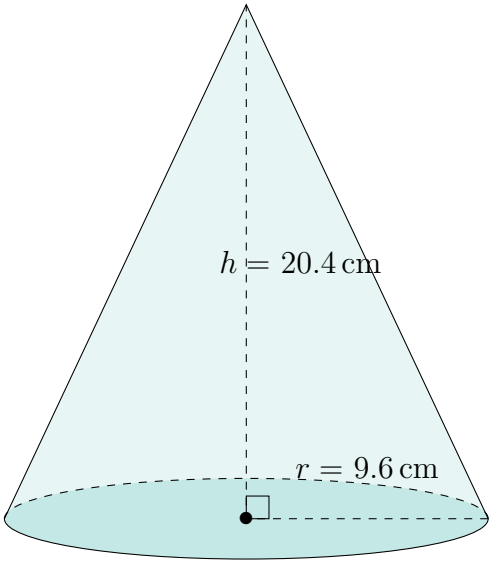
Surface Area: $88.0\,\text{km}^2$
Volume: $53.7\,\text{km}^3$

Surface Area and Volume of Cones (I)

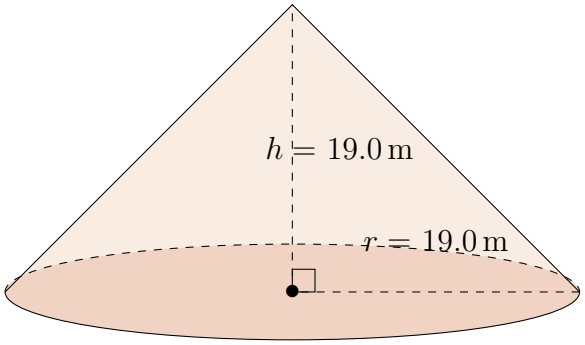
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

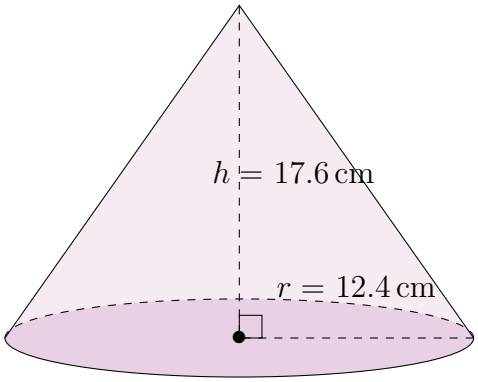
1.



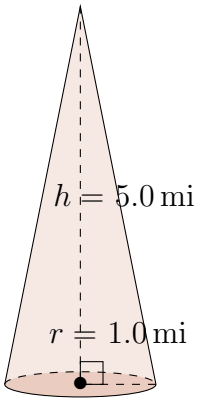
2.



3.



4.

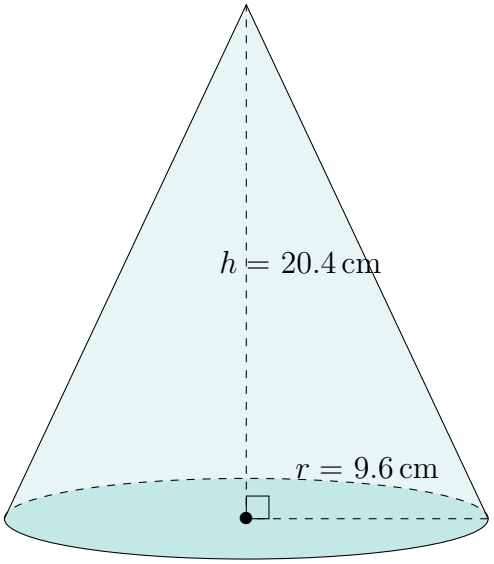


Surface Area and Volume of Cones (I) Answers

Calculate the surface area and volume for each cone.

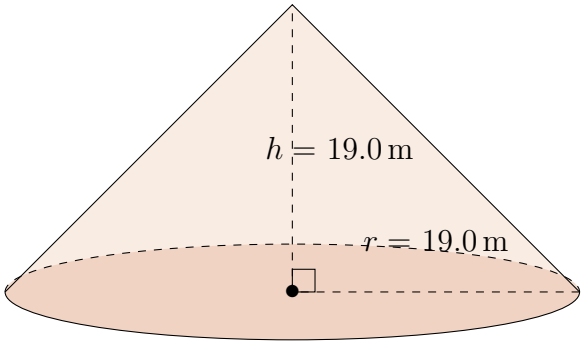
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



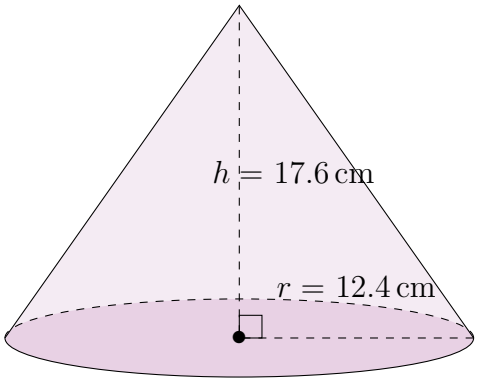
Surface Area: $969.5\,\text{cm}^2$
Volume: $1968.8\,\text{cm}^3$

2.



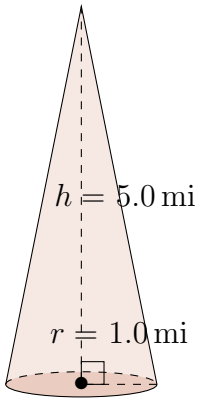
Surface Area: $2738.0\,\text{m}^2$
Volume: $7182.7\,\text{m}^3$

3.



Surface Area: $1321.7\,\text{cm}^2$
Volume: $2833.9\,\text{cm}^3$

4.



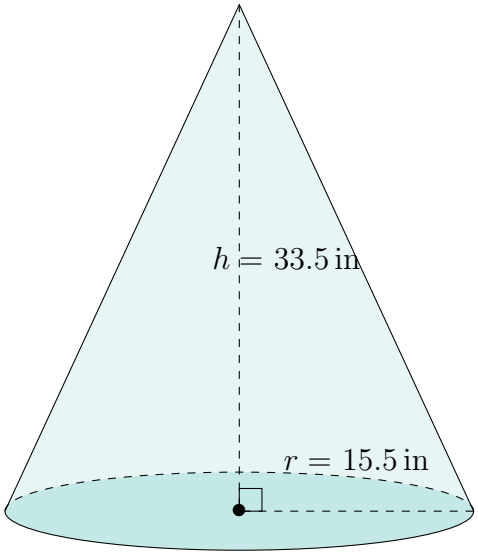
Surface Area: $19.2\,\text{mi}^2$
Volume: $5.2\,\text{mi}^3$

Surface Area and Volume of Cones (J)

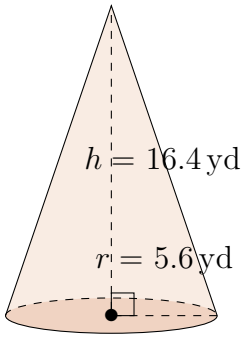
Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

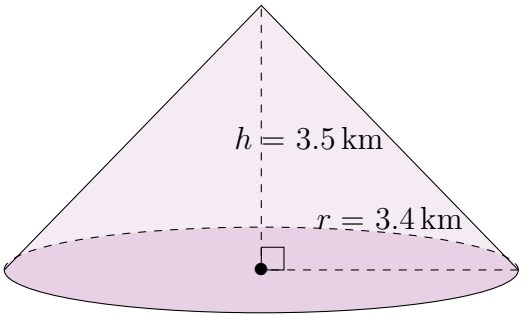
1.



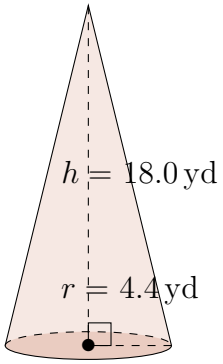
2.



3.



4.

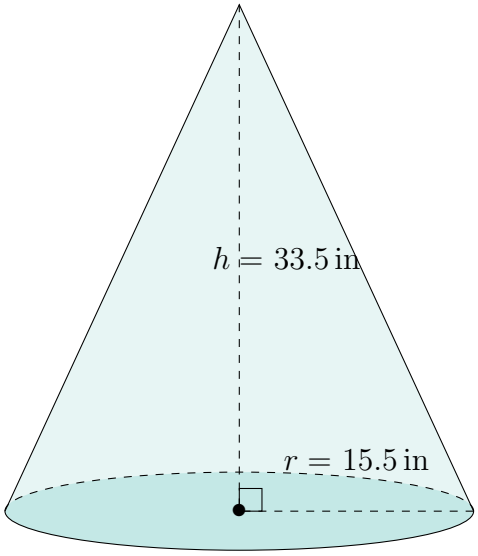


Surface Area and Volume of Cones (J) Answers

Calculate the surface area and volume for each cone.

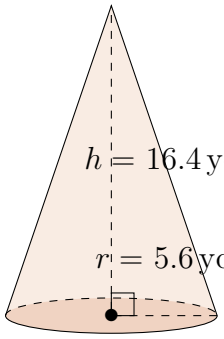
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



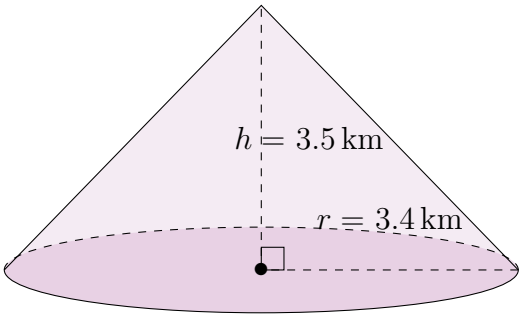
Surface Area: $2552.2\,\text{in}^2$
Volume: $8428.2\,\text{in}^3$

2.



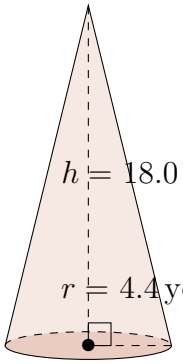
Surface Area: $403.4\,\text{yd}^2$
Volume: $538.6\,\text{yd}^3$

3.



Surface Area: $88.4\,\text{km}^2$
Volume: $42.4\,\text{km}^3$

4.



Surface Area: $317.0\,\text{yd}^2$
Volume: $364.9\,\text{yd}^3$