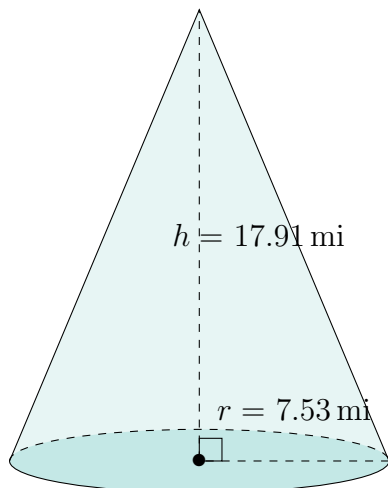


Surface Area and Volume of Cones (A)

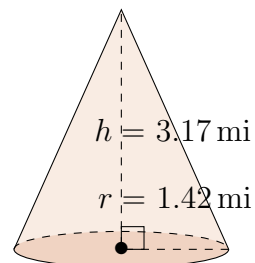
Calculate the surface area and volume for each cone.

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

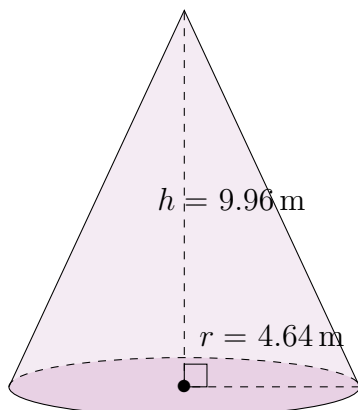
1.



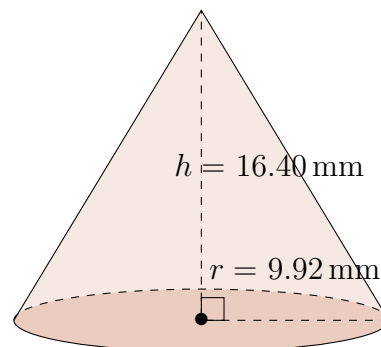
2.



3.



4.

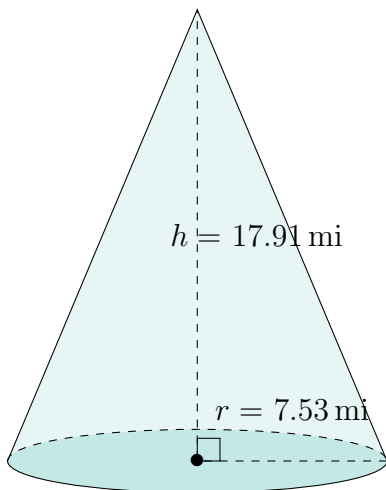


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

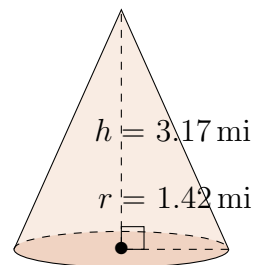
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



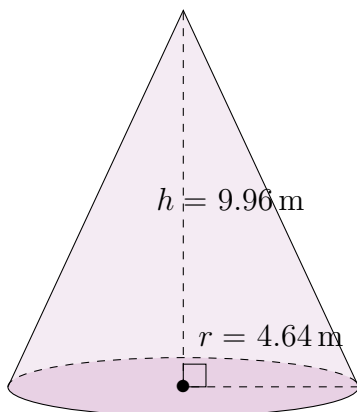
Surface Area: 637.74 mi^2
Volume: 1063.44 mi^3

2.



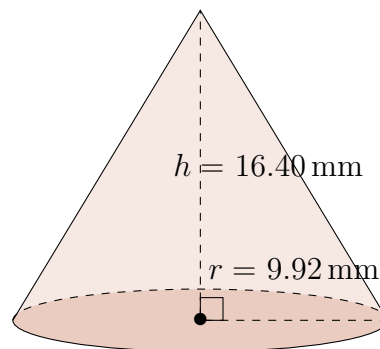
Surface Area: 21.83 mi^2
Volume: 6.69 mi^3

3.



Surface Area: 227.81 m^2
Volume: 224.56 m^3

4.



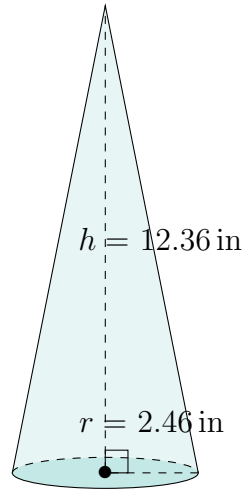
Surface Area: 906.48 mm^2
Volume: 1690.04 mm^3

Surface Area and Volume of Cones (B)

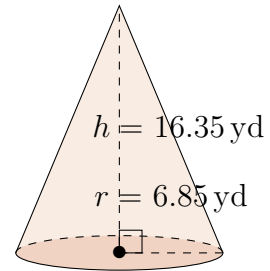
Calculate the surface area and volume for each cone.

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

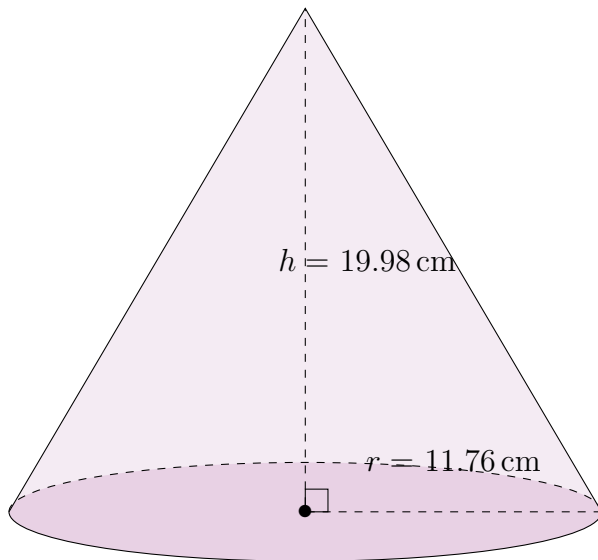
1.



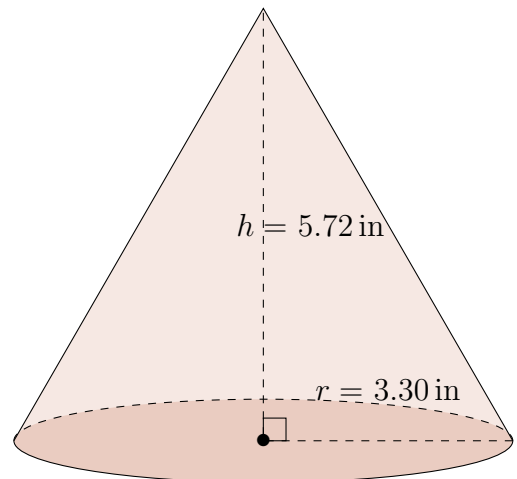
2.



3.



4.

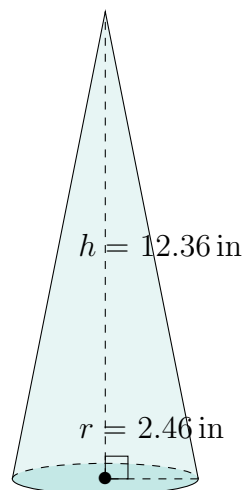


Surface Area and Volume of Cones (B) Answers

Calculate the surface area and volume for each cone.

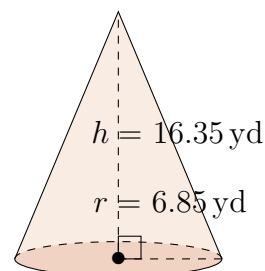
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



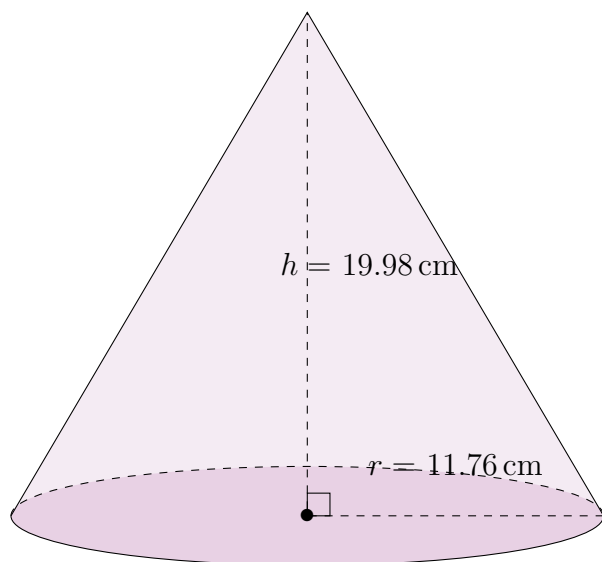
Surface Area: 116.41 in^2
Volume: 78.33 in^3

2.



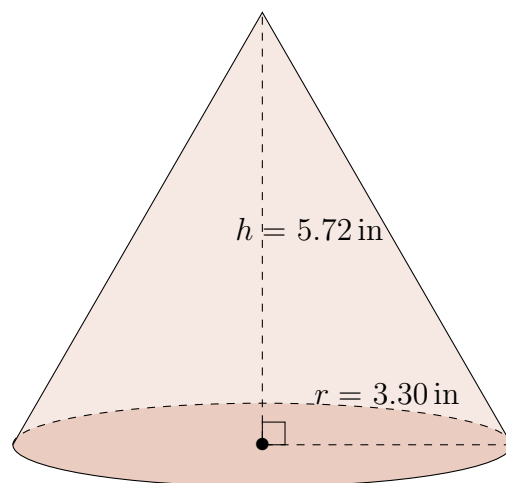
Surface Area: 528.89 yd^2
Volume: 803.39 yd^3

3.



Surface Area: 1291.01 cm^2
Volume: 2893.60 cm^3

4.



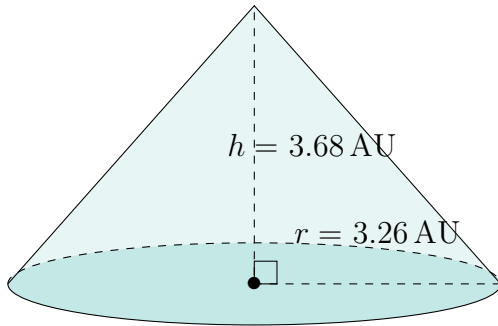
Surface Area: 102.67 in^2
Volume: 65.23 in^3

Surface Area and Volume of Cones (C)

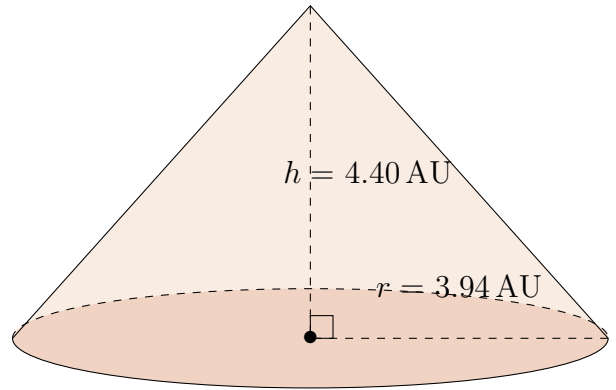
Calculate the surface area and volume for each cone.

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

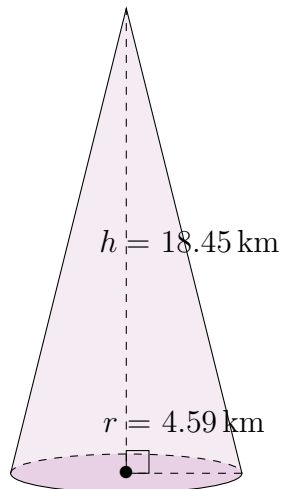
1.



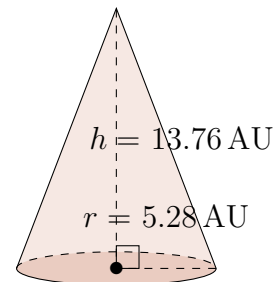
2.



3.



4.

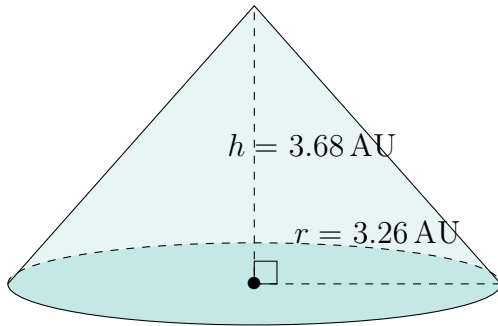


Surface Area and Volume of Cones (C) Answers

Calculate the surface area and volume for each cone.

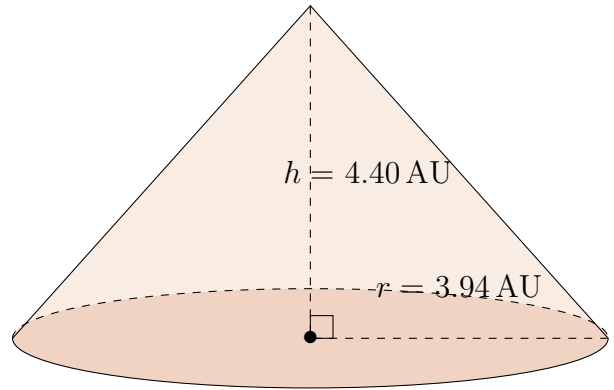
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



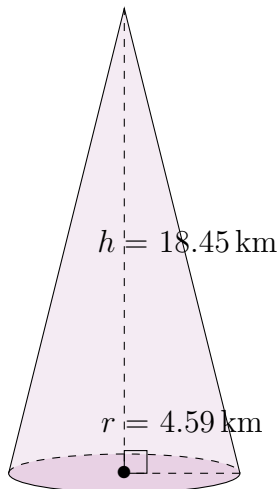
Surface Area: 83.74 AU^2
Volume: 40.96 AU^3

2.



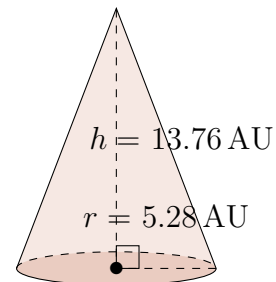
Surface Area: 121.88 AU^2
Volume: 71.53 AU^3

3.



Surface Area: 340.34 km^2
Volume: 407.05 km^3

4.



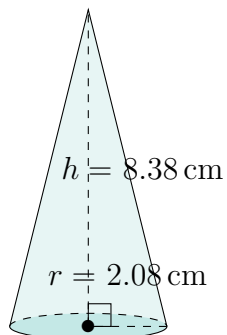
Surface Area: 332.05 AU^2
Volume: 401.71 AU^3

Surface Area and Volume of Cones (D)

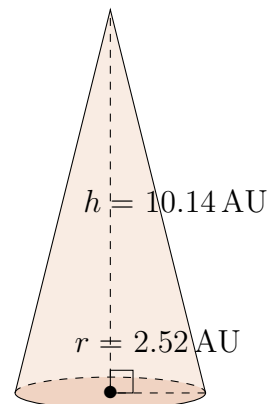
Calculate the surface area and volume for each cone.

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

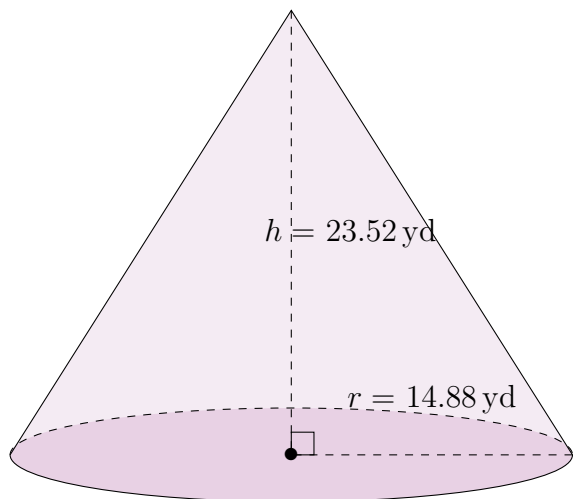
1.



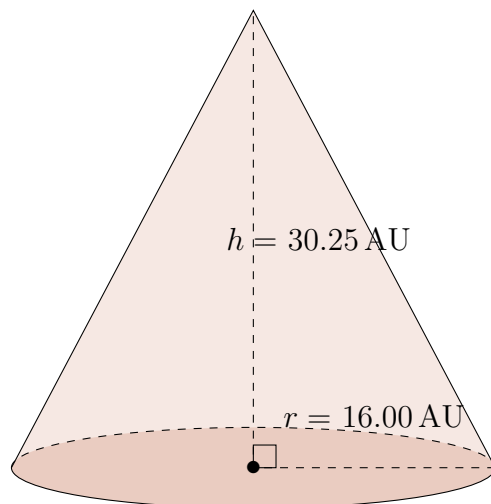
2.



3.



4.

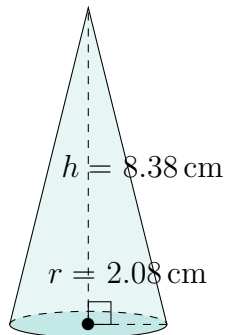


Surface Area and Volume of Cones (D) Answers

Calculate the surface area and volume for each cone.

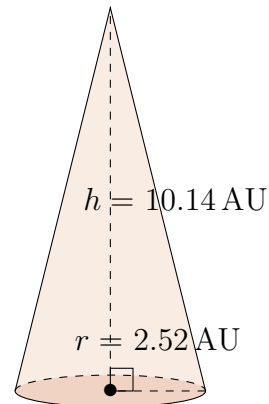
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



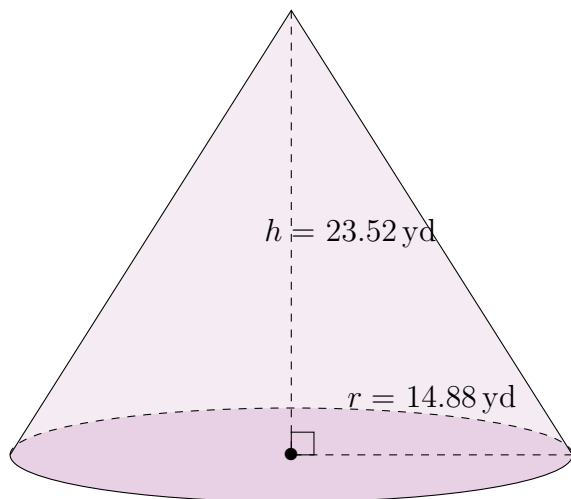
Surface Area: 70.01 cm^2
Volume: 37.97 cm^3

2.



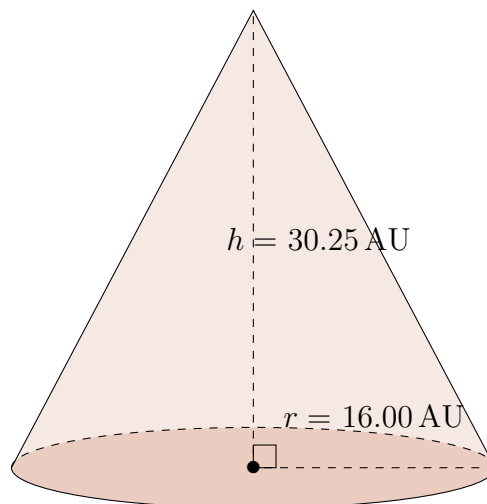
Surface Area: 102.67 AU^2
Volume: 67.43 AU^3

3.



Surface Area: 1996.64 yd^2
Volume: 5453.46 yd^3

4.



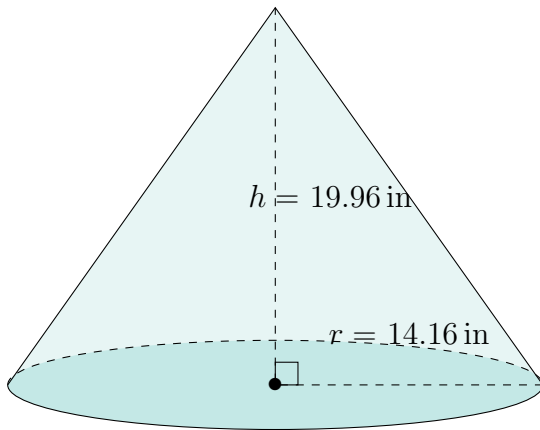
Surface Area: 2524.37 AU^2
Volume: 8109.50 AU^3

Surface Area and Volume of Cones (E)

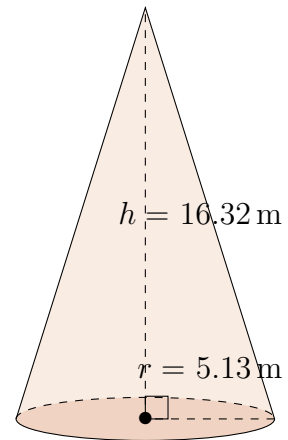
Calculate the surface area and volume for each cone.

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

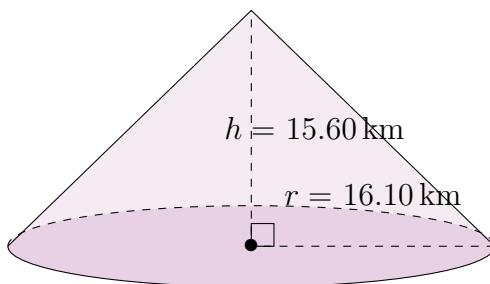
1.



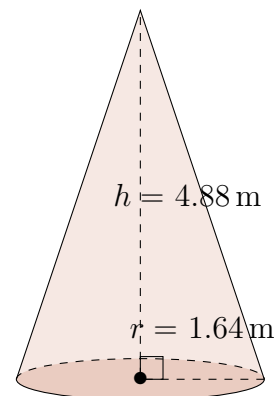
2.



3.



4.

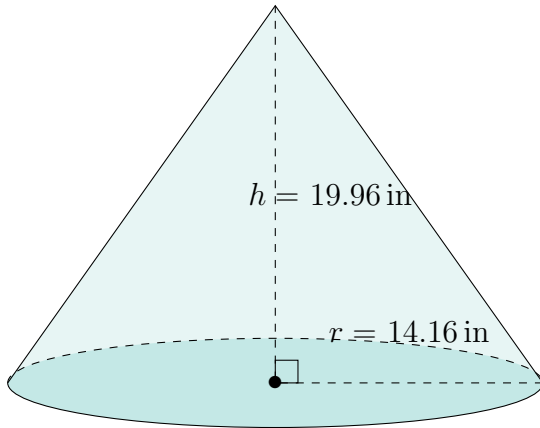


Surface Area and Volume of Cones (E) Answers

Calculate the surface area and volume for each cone.

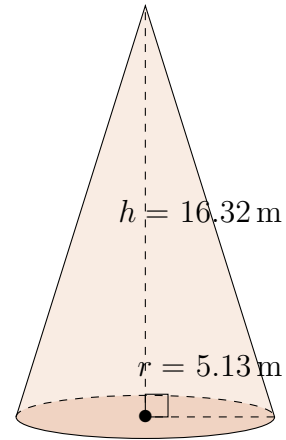
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



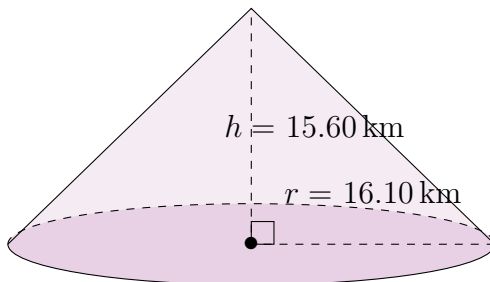
Surface Area: 1718.57 in^2
Volume: 4190.98 in^3

2.



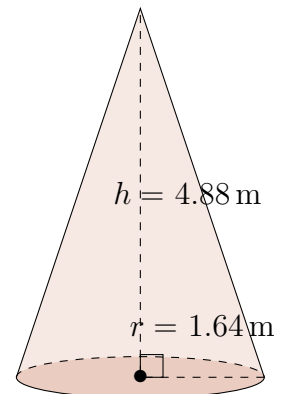
Surface Area: 358.38 m^2
Volume: 449.76 m^3

3.



Surface Area: 1948.23 km^2
Volume: 4234.53 km^3

4.



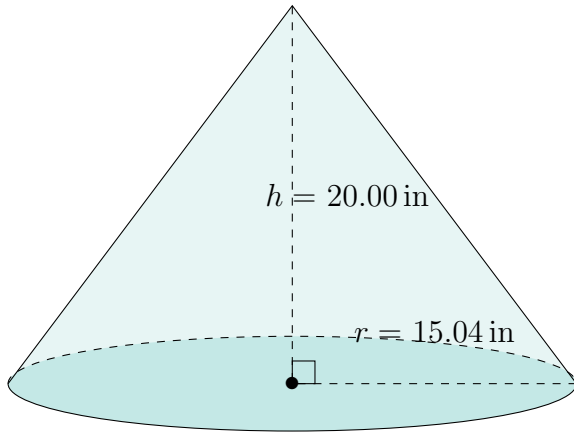
Surface Area: 34.97 m^2
Volume: 13.74 m^3

Surface Area and Volume of Cones (F)

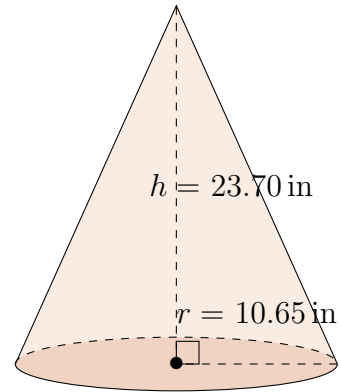
Calculate the surface area and volume for each cone.

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

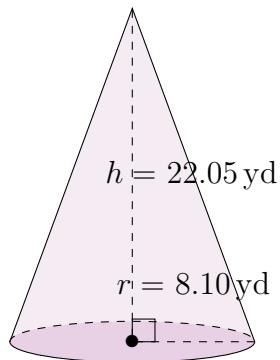
1.



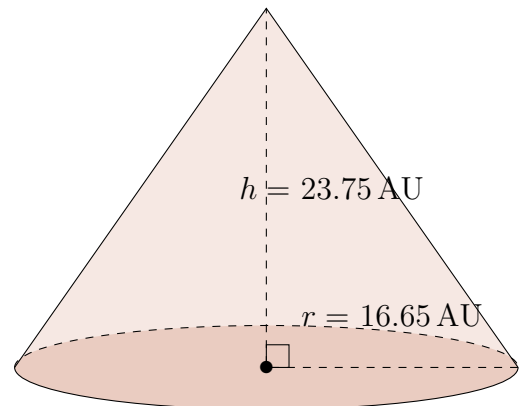
2.



3.



4.

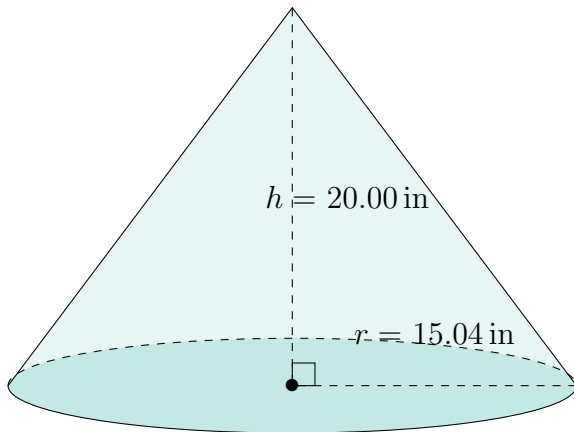


Surface Area and Volume of Cones (F) Answers

Calculate the surface area and volume for each cone.

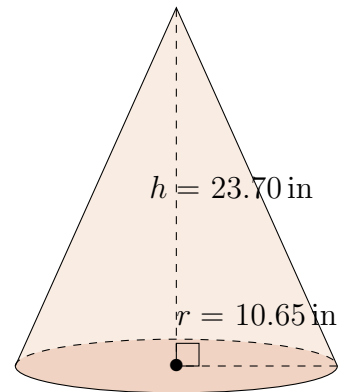
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



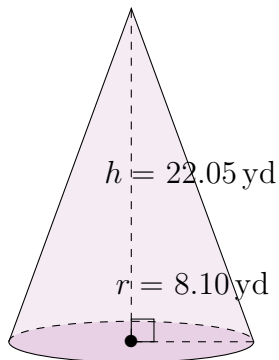
Surface Area: 1893.01 in^2
Volume: 4737.56 in^3

2.



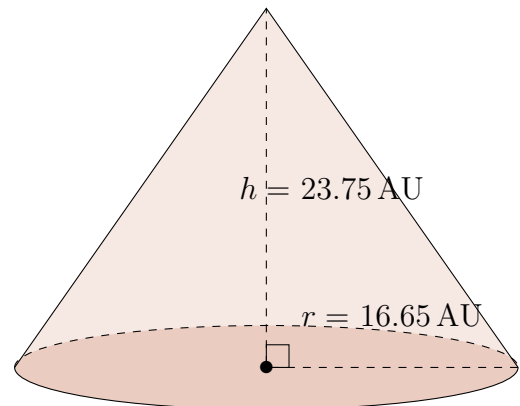
Surface Area: 1225.66 in^2
Volume: 2814.99 in^3

3.



Surface Area: 803.89 yd^2
Volume: 1514.98 yd^3

4.



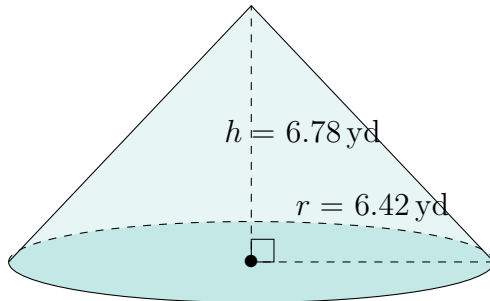
Surface Area: 2388.10 AU^2
Volume: 6894.78 AU^3

Surface Area and Volume of Cones (G)

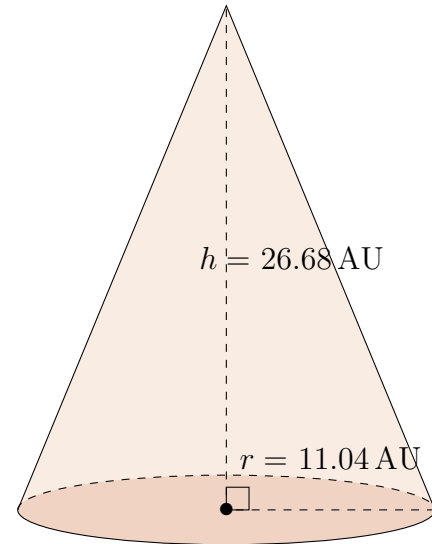
Calculate the surface area and volume for each cone.

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

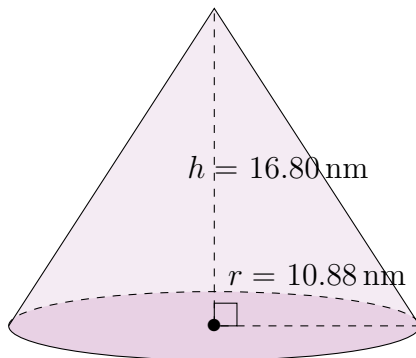
1.



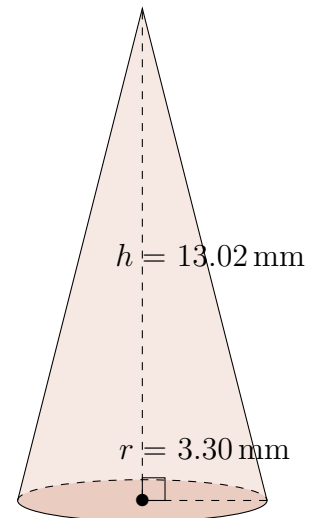
2.



3.



4.

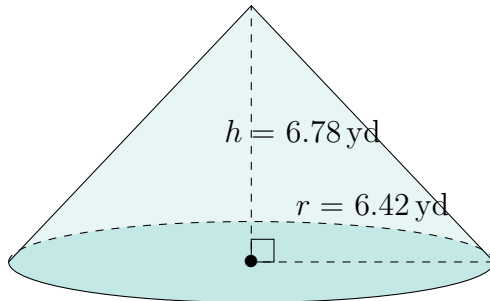


Surface Area and Volume of Cones (G) Answers

Calculate the surface area and volume for each cone.

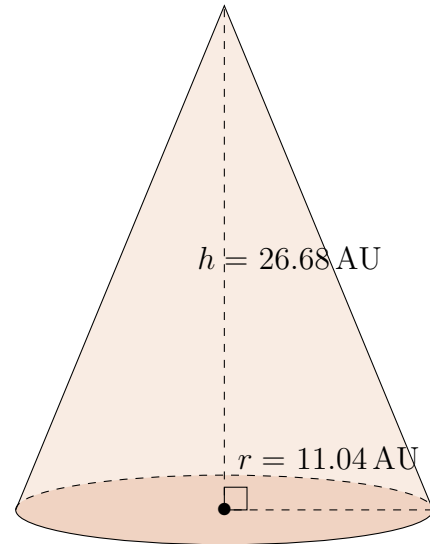
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



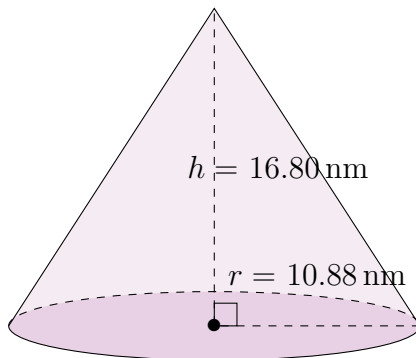
Surface Area: 317.81 yd^2
Volume: 292.64 yd^3

2.



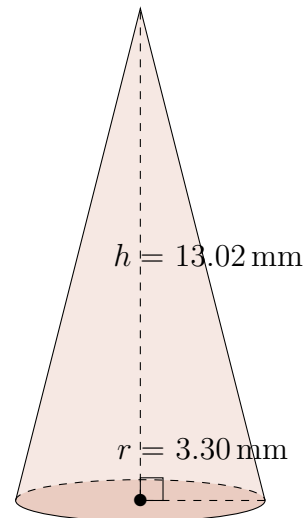
Surface Area: 1384.34 AU^2
Volume: 3405.28 AU^3

3.



Surface Area: 1056.02 nm^2
Volume: 2082.55 nm^3

4.



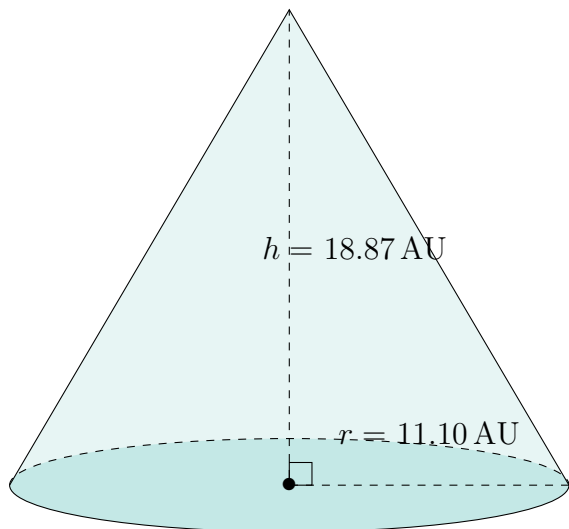
Surface Area: 173.46 mm^2
Volume: 148.48 mm^3

Surface Area and Volume of Cones (H)

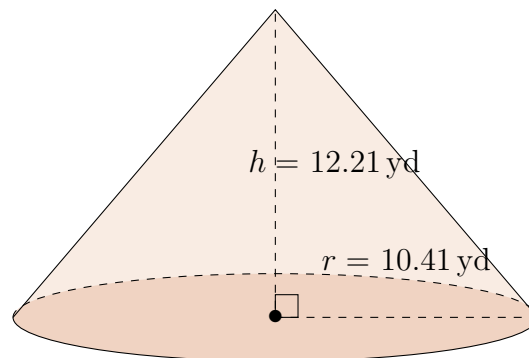
Calculate the surface area and volume for each cone.

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

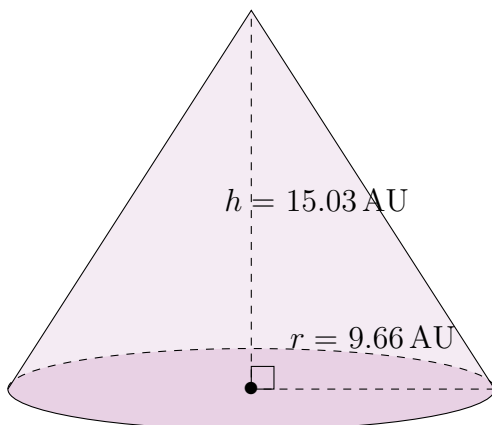
1.



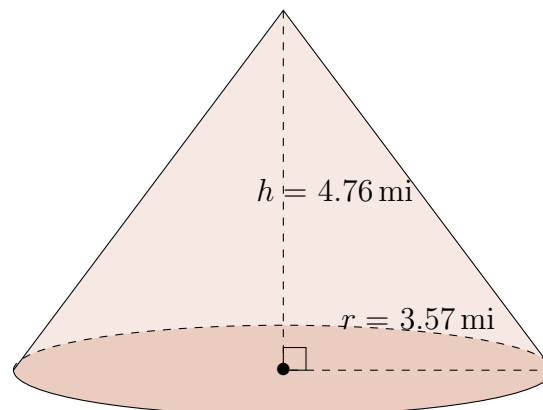
2.



3.



4.

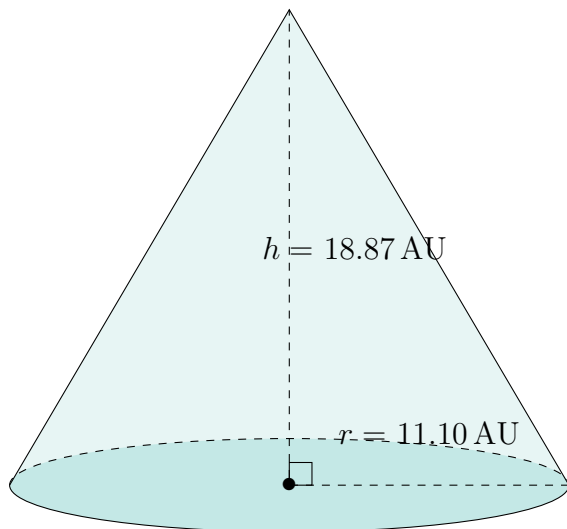


Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

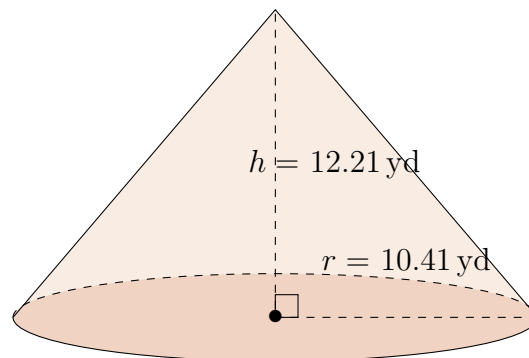
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



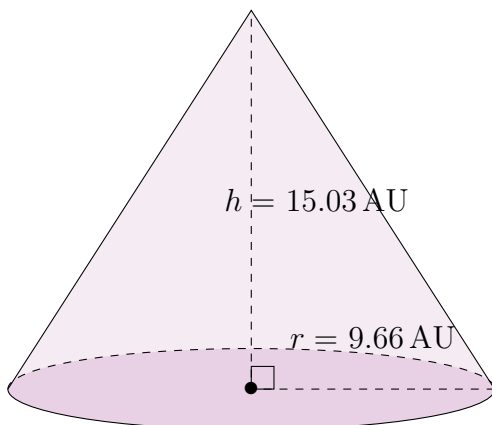
Surface Area: 1150.51 AU^2
Volume: 2434.71 AU^3

2.



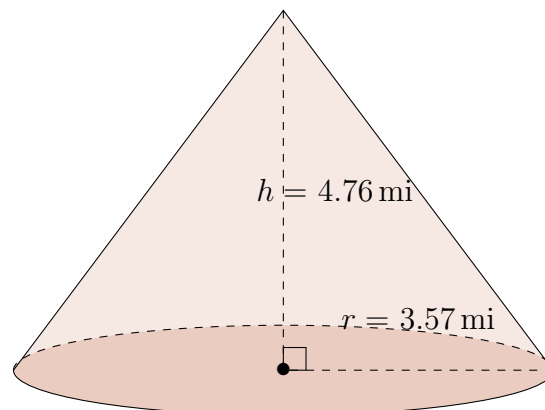
Surface Area: 865.19 yd^2
Volume: 1385.63 yd^3

3.



Surface Area: 835.37 AU^2
Volume: 1468.73 AU^3

4.



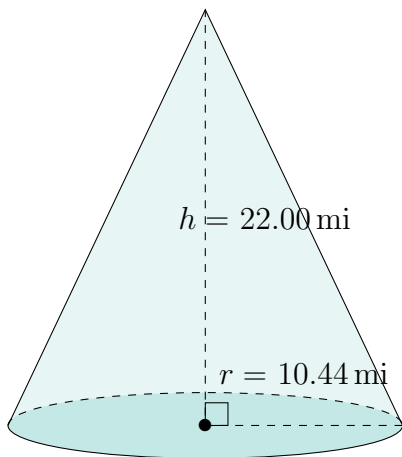
Surface Area: 106.77 mi^2
Volume: 63.53 mi^3

Surface Area and Volume of Cones (I)

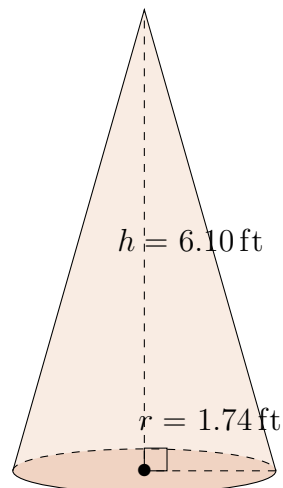
Calculate the surface area and volume for each cone.

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

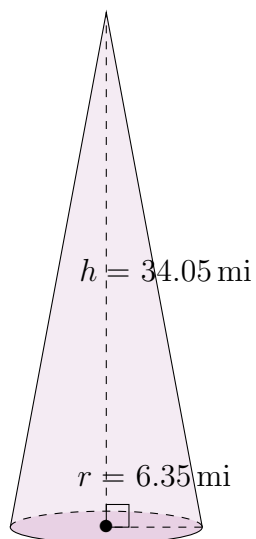
1.



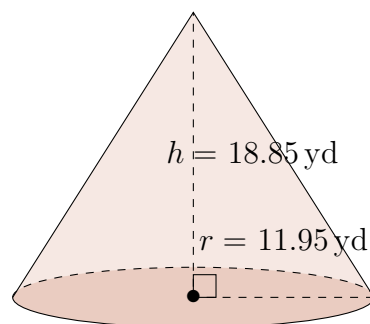
2.



3.



4.

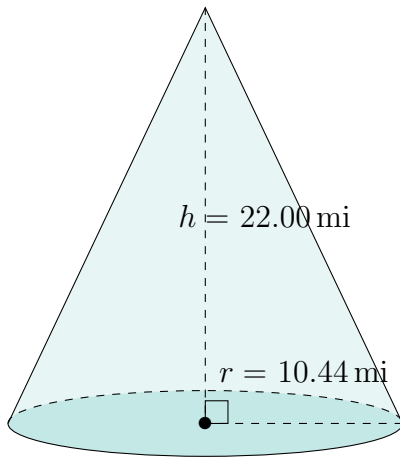


Surface Area and Volume of Cones (I) Answers

Calculate the surface area and volume for each cone.

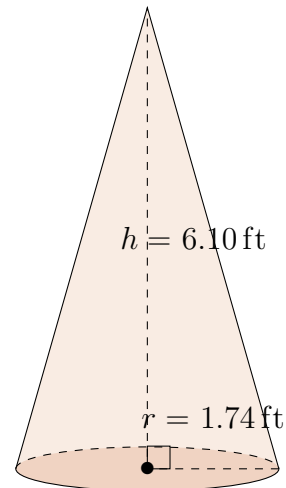
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



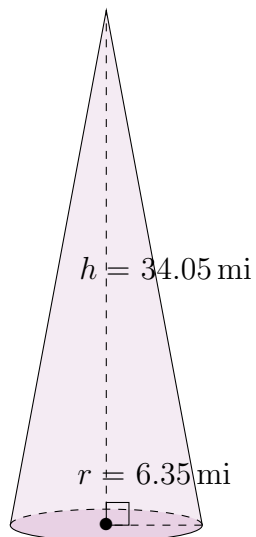
Surface Area: 1141.10 mi^2
Volume: 2511.03 mi^3

2.



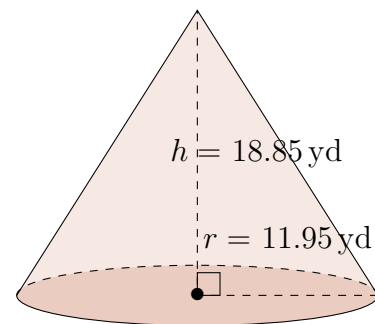
Surface Area: 44.19 ft^2
Volume: 19.34 ft^3

3.



Surface Area: 817.66 mi^2
Volume: 1437.78 mi^3

4.



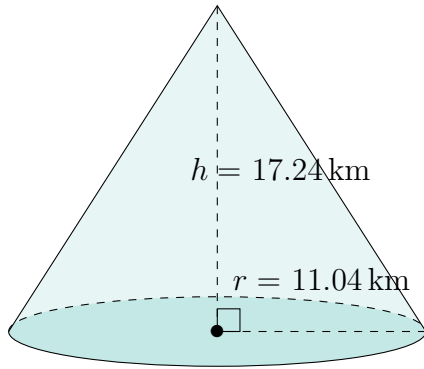
Surface Area: 1286.52 yd^2
Volume: 2818.87 yd^3

Surface Area and Volume of Cones (J)

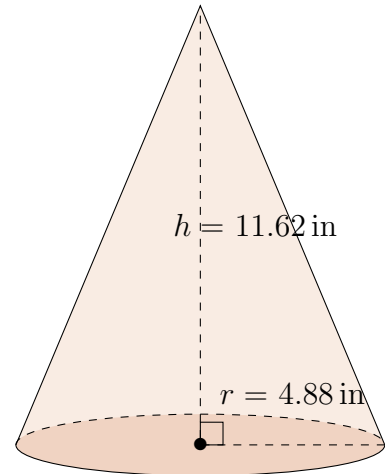
Calculate the surface area and volume for each cone.

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

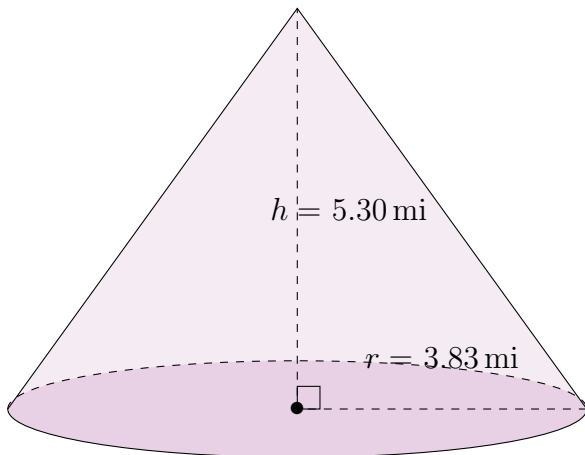
1.



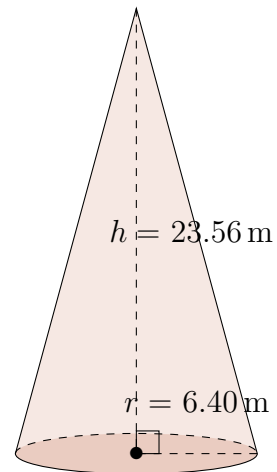
2.



3.



4.

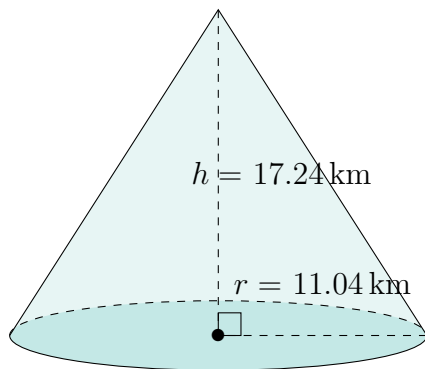


Surface Area and Volume of Cones (J) Answers

Calculate the surface area and volume for each cone.

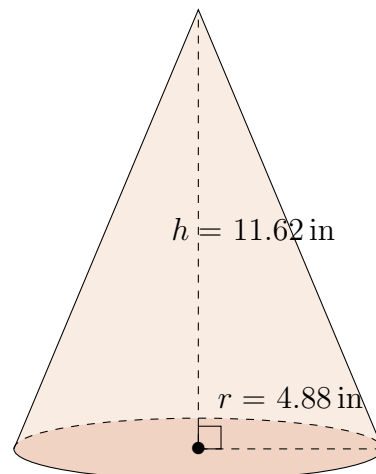
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



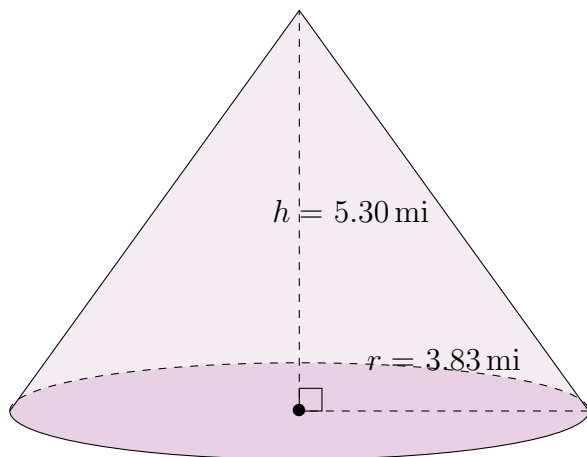
Surface Area: 1092.93 km^2
Volume: 2200.41 km^3

2.



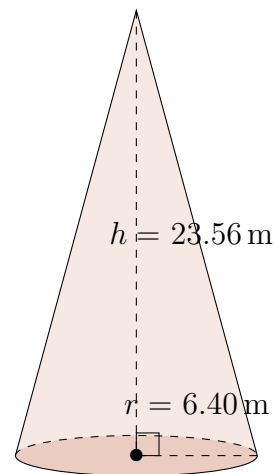
Surface Area: 268.03 in^2
Volume: 289.78 in^3

3.



Surface Area: 124.76 mi^2
Volume: 81.41 mi^3

4.



Surface Area: 619.55 m^2
Volume: 1010.56 m^3