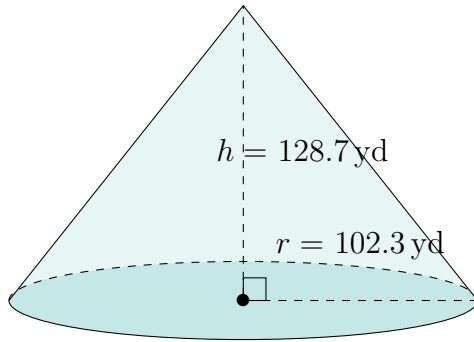


Surface Area and Volume of Cones (A)

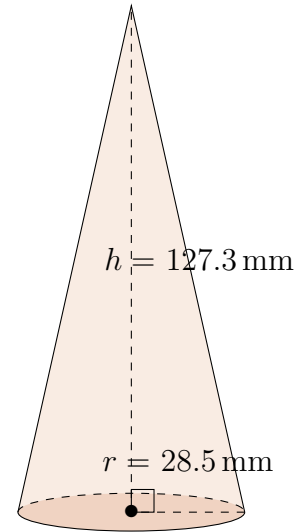
Calculate the surface area and volume for each cone.

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

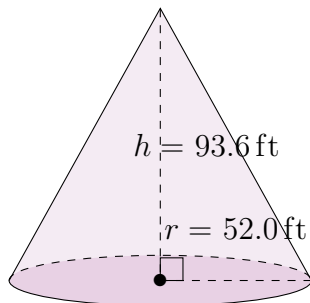
1.



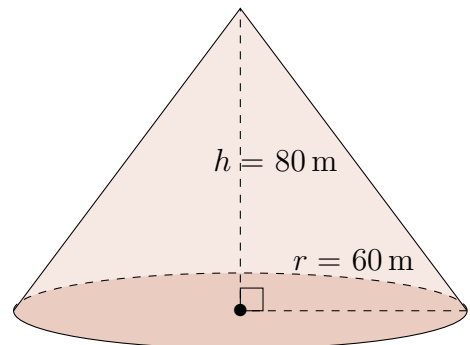
2.



3.



4.

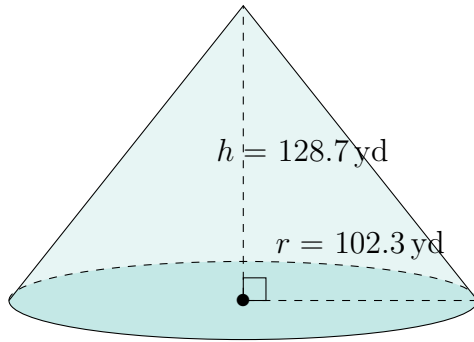


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

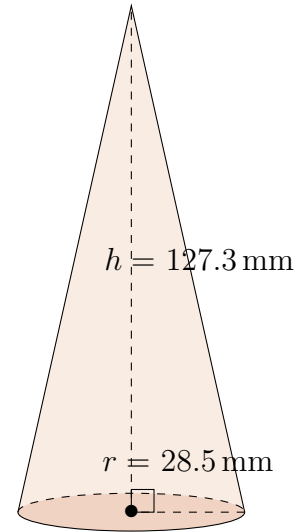
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



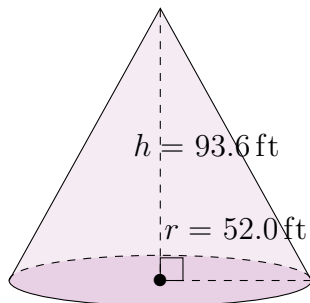
Surface Area: $85,714.9 \text{ yd}^2$
Volume: $1,410,452.4 \text{ yd}^3$

2.



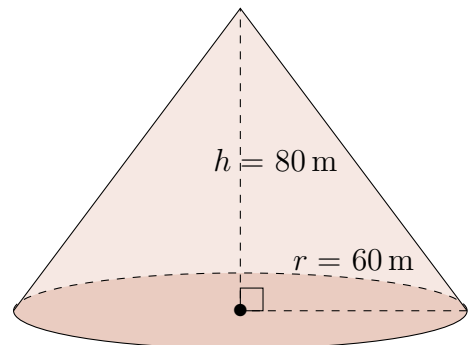
Surface Area: $14,231.8 \text{ mm}^2$
Volume: $108,279.6 \text{ mm}^3$

3.



Surface Area: $25,986.9 \text{ ft}^2$
Volume: $265,039.8 \text{ ft}^3$

4.



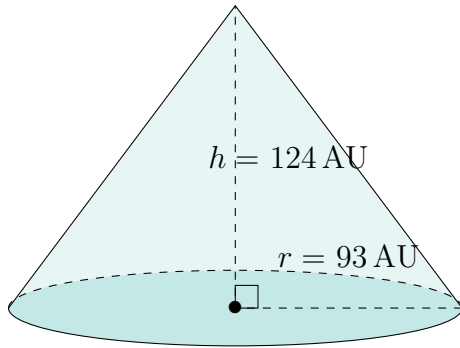
Surface Area: $30,159 \text{ m}^2$
Volume: $301,593 \text{ m}^3$

Surface Area and Volume of Cones (B)

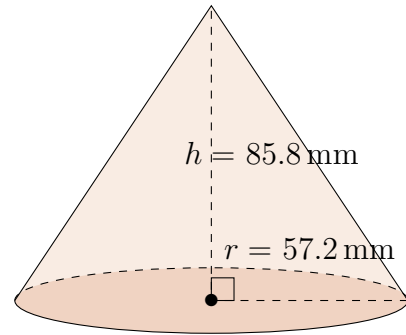
Calculate the surface area and volume for each cone.

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

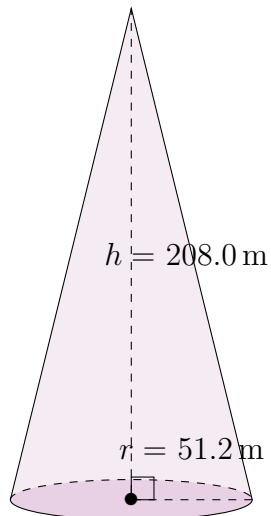
1.



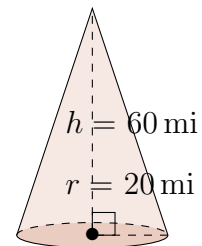
2.



3.



4.

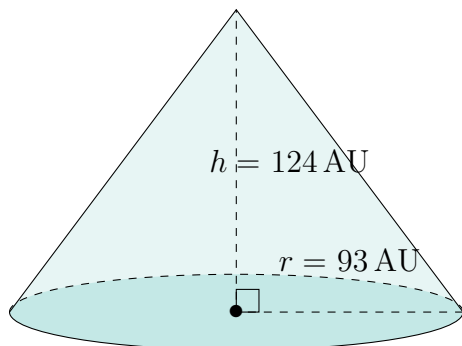


Surface Area and Volume of Cones (B) Answers

Calculate the surface area and volume for each cone.

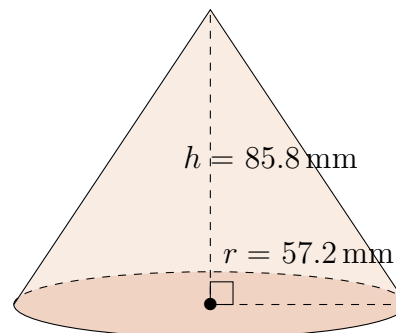
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



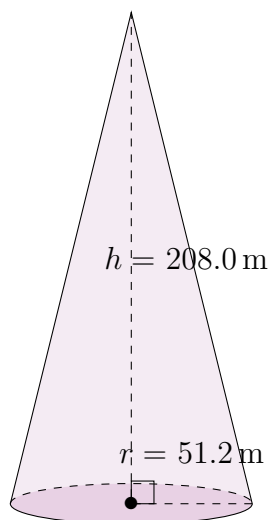
Surface Area: 72,458 AU²
Volume: 1,123,094 AU³

2.



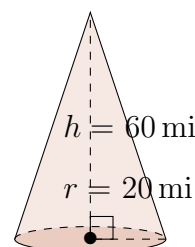
Surface Area: 28,809.1 mm²
Volume: 293,973.4 mm³

3.



Surface Area: 42,690.9 m²
Volume: 570,994.4 m³

4.



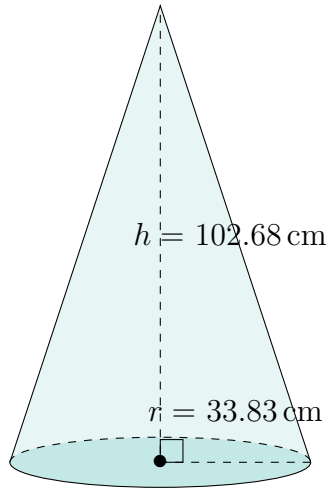
Surface Area: 5230 mi²
Volume: 25,133 mi³

Surface Area and Volume of Cones (C)

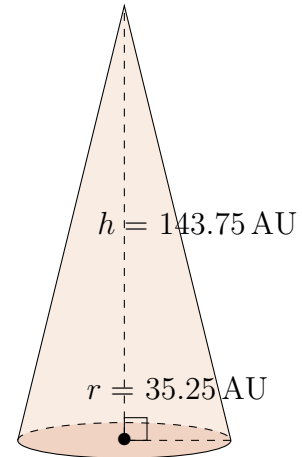
Calculate the surface area and volume for each cone.

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

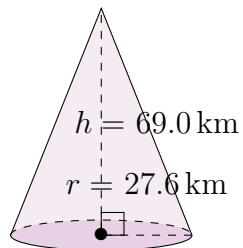
1.



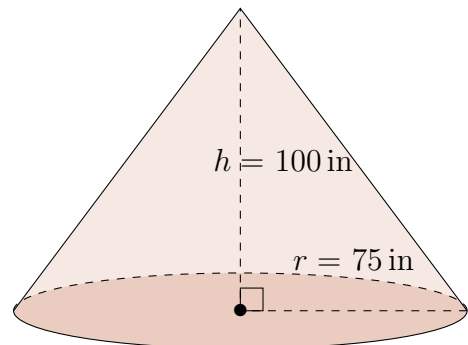
2.



3.



4.

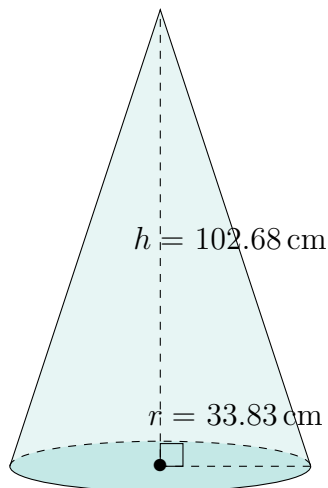


Surface Area and Volume of Cones (C) Answers

Calculate the surface area and volume for each cone.

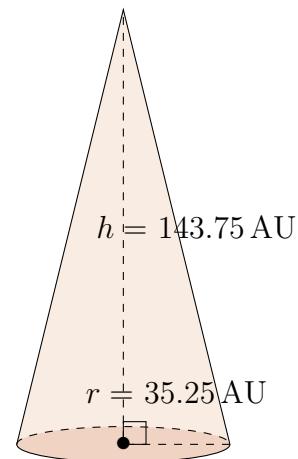
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



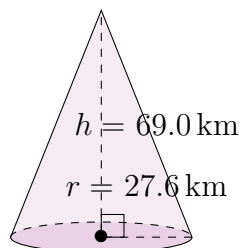
Surface Area: $15,085.34 \text{ cm}^2$
Volume: $123,060.44 \text{ cm}^3$

2.



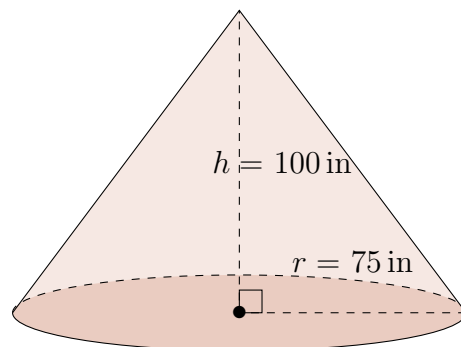
Surface Area: $20,294.30 \text{ AU}^2$
Volume: $187,048.71 \text{ AU}^3$

3.



Surface Area: 8836.9 km^2
Volume: $55,042.2 \text{ km}^3$

4.



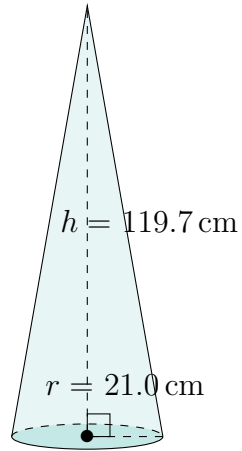
Surface Area: $47,124 \text{ in}^2$
Volume: $589,049 \text{ in}^3$

Surface Area and Volume of Cones (D)

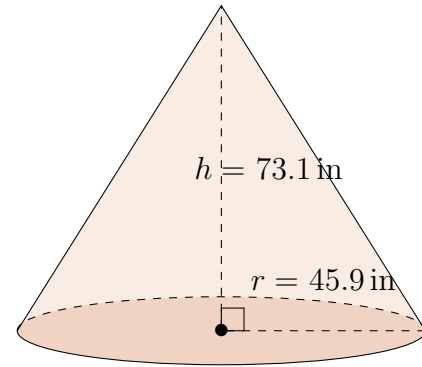
Calculate the surface area and volume for each cone.

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

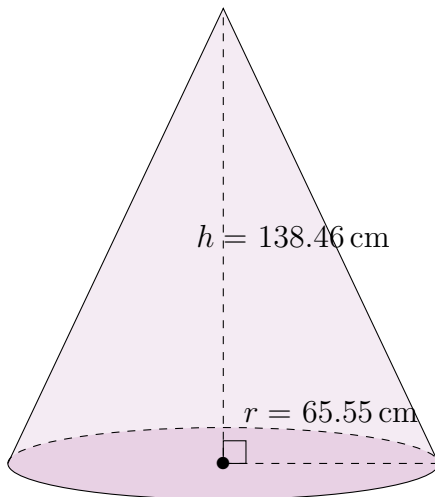
1.



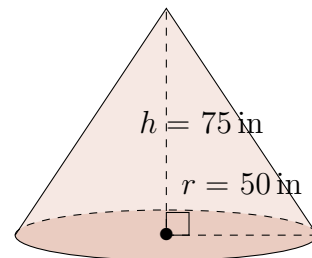
2.



3.



4.

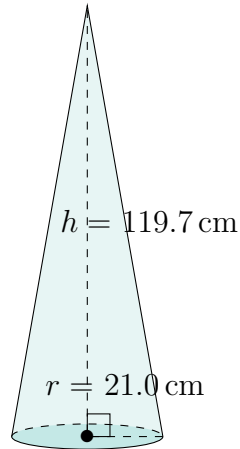


Surface Area and Volume of Cones (D) Answers

Calculate the surface area and volume for each cone.

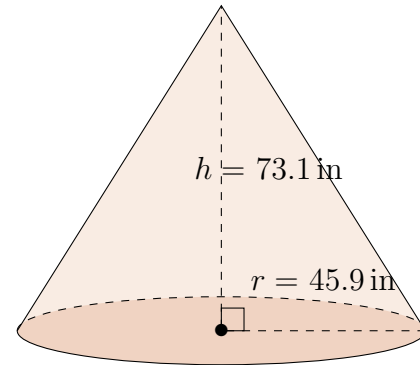
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



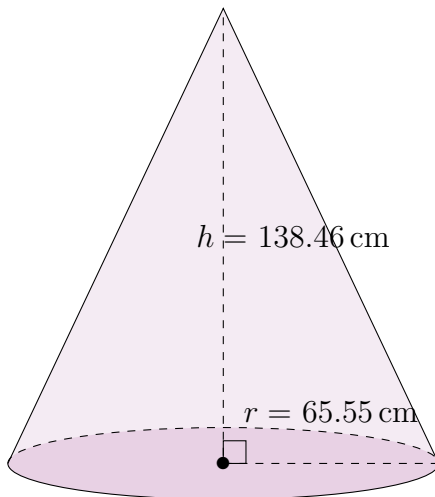
Surface Area: 9403.1 cm^2
Volume: $55,279.2 \text{ cm}^3$

2.



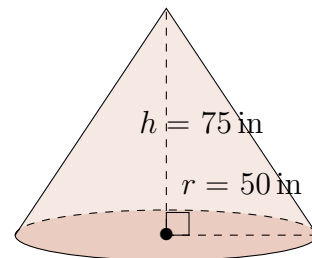
Surface Area: $19,065.4 \text{ in}^2$
Volume: $161,276.6 \text{ in}^3$

3.



Surface Area: $45,045.97 \text{ cm}^2$
Volume: $623,014.76 \text{ cm}^3$

4.



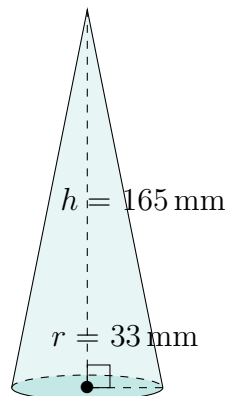
Surface Area: $22,013 \text{ in}^2$
Volume: $196,350 \text{ in}^3$

Surface Area and Volume of Cones (E)

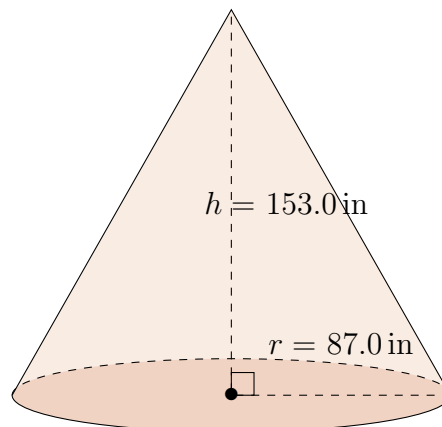
Calculate the surface area and volume for each cone.

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

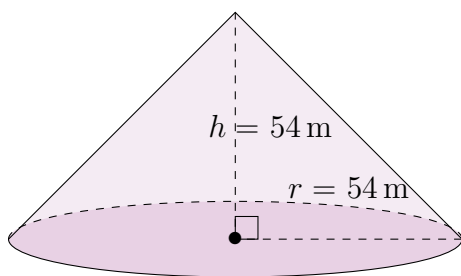
1.



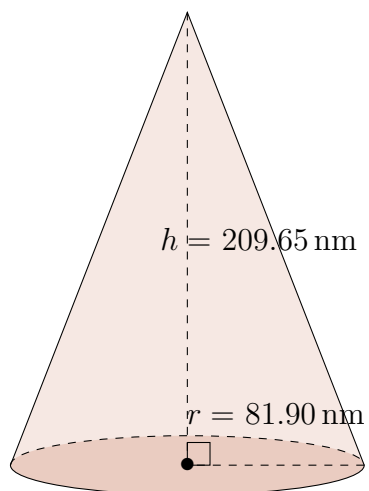
2.



3.



4.

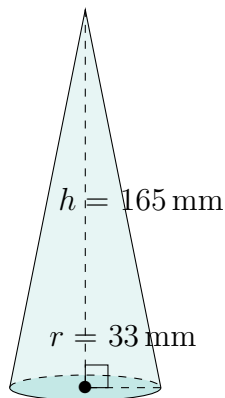


Surface Area and Volume of Cones (E) Answers

Calculate the surface area and volume for each cone.

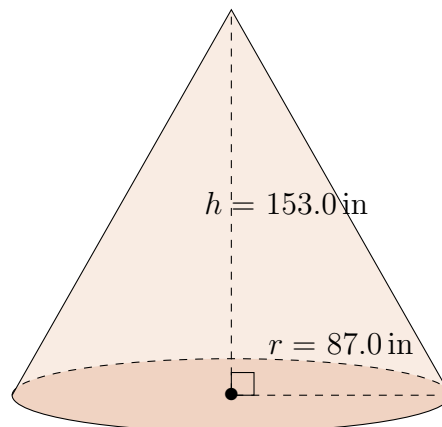
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



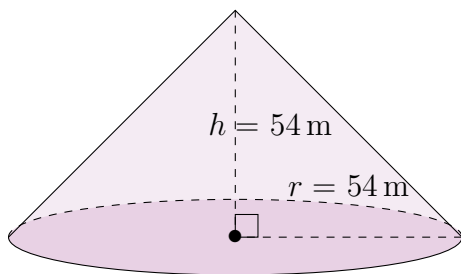
Surface Area: $20,866 \text{ mm}^2$
Volume: $188,166 \text{ mm}^3$

2.



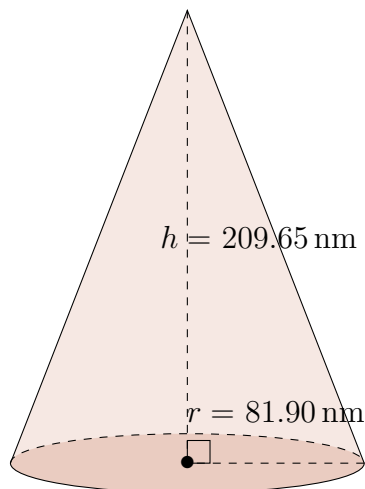
Surface Area: $71,884.3 \text{ in}^2$
Volume: $1,212,714.5 \text{ in}^3$

3.



Surface Area: $22,116 \text{ m}^2$
Volume: $164,896 \text{ m}^3$

4.



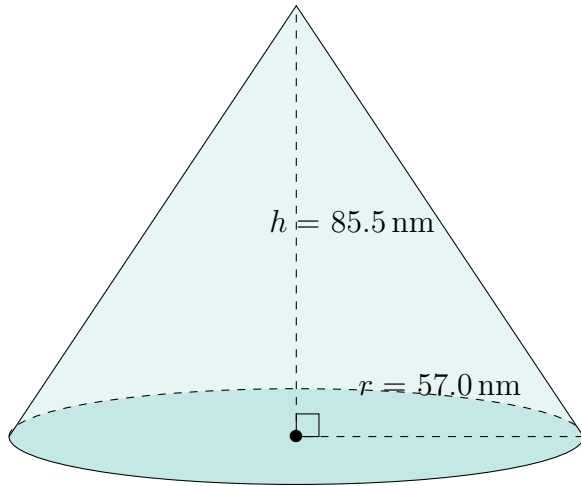
Surface Area: $78,984.70 \text{ nm}^2$
Volume: $1,472,622.01 \text{ nm}^3$

Surface Area and Volume of Cones (F)

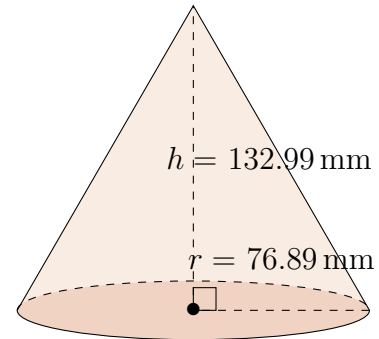
Calculate the surface area and volume for each cone.

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

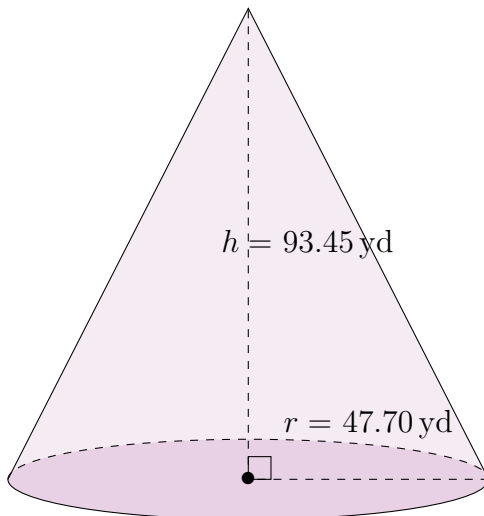
1.



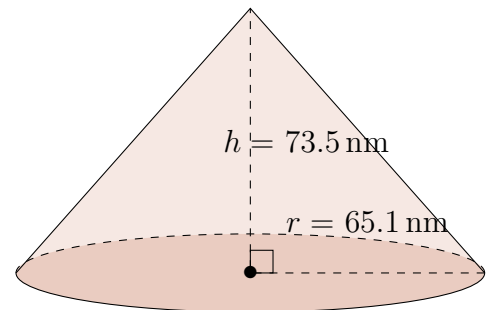
2.



3.



4.

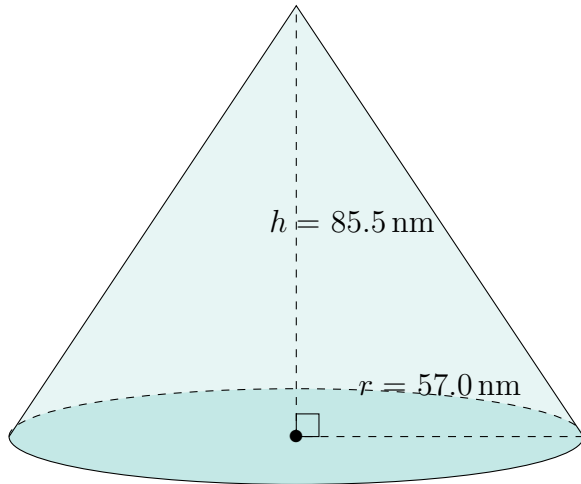


Surface Area and Volume of Cones (F) Answers

Calculate the surface area and volume for each cone.

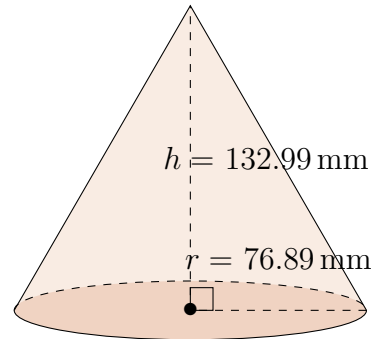
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



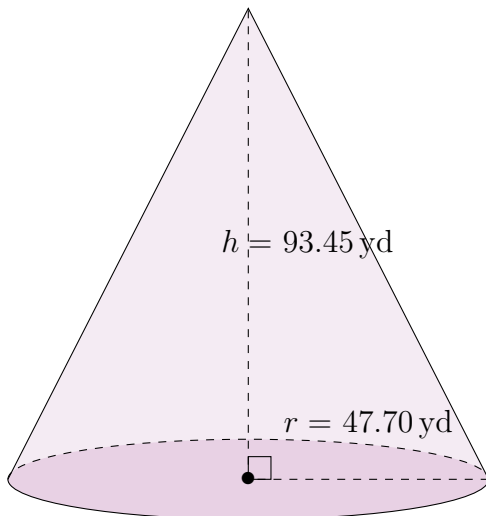
Surface Area: 28,608.0 nm²
Volume: 290,900.5 nm³

2.



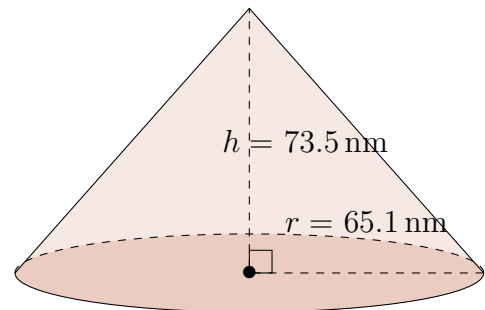
Surface Area: 55,680.77 mm²
Volume: 823,355.38 mm³

3.



Surface Area: 22,870.70 yd²
Volume: 222,661.27 yd³

4.



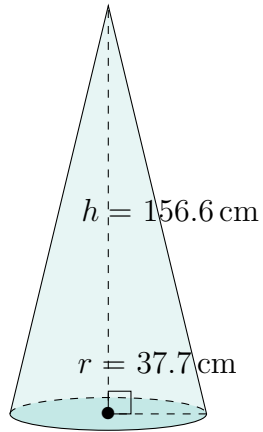
Surface Area: 33,394.6 nm²
Volume: 326,195.5 nm³

Surface Area and Volume of Cones (G)

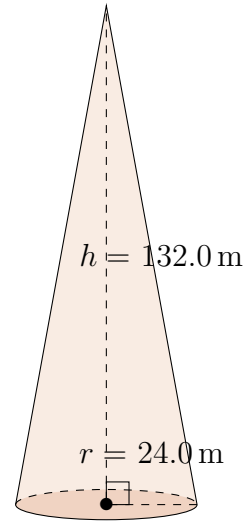
Calculate the surface area and volume for each cone.

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

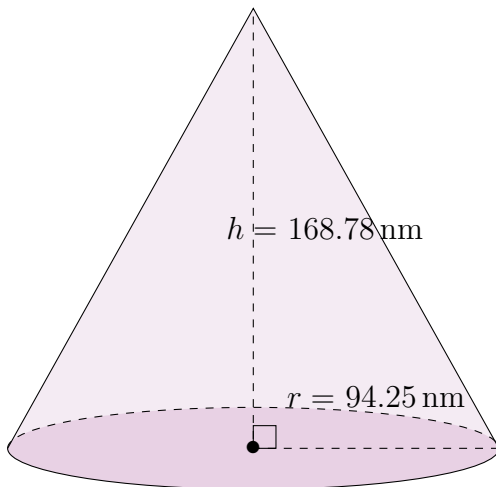
1.



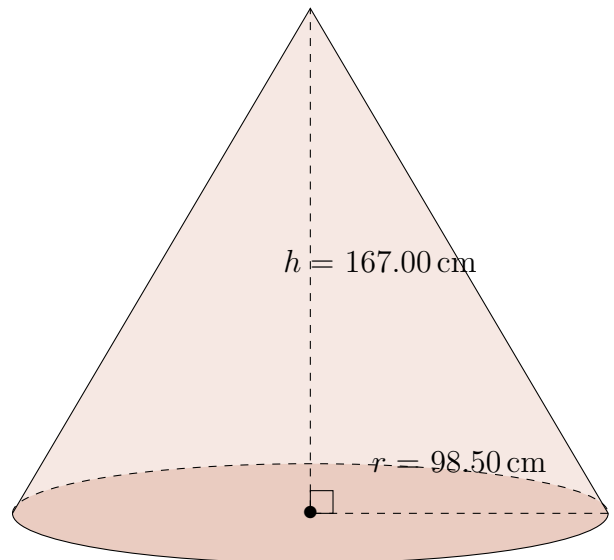
2.



3.



4.

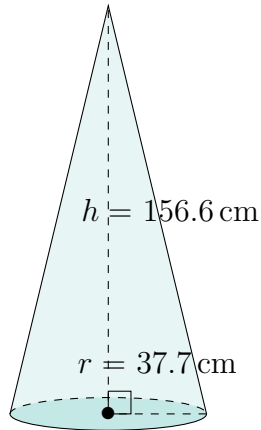


Surface Area and Volume of Cones (G) Answers

Calculate the surface area and volume for each cone.

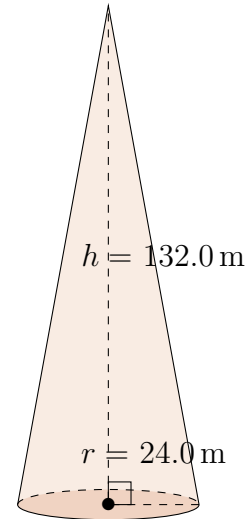
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



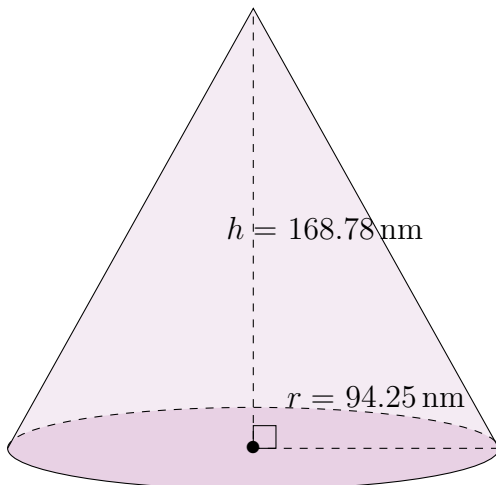
Surface Area: $23,542.4 \text{ cm}^2$
Volume: $233,079.0 \text{ cm}^3$

2.



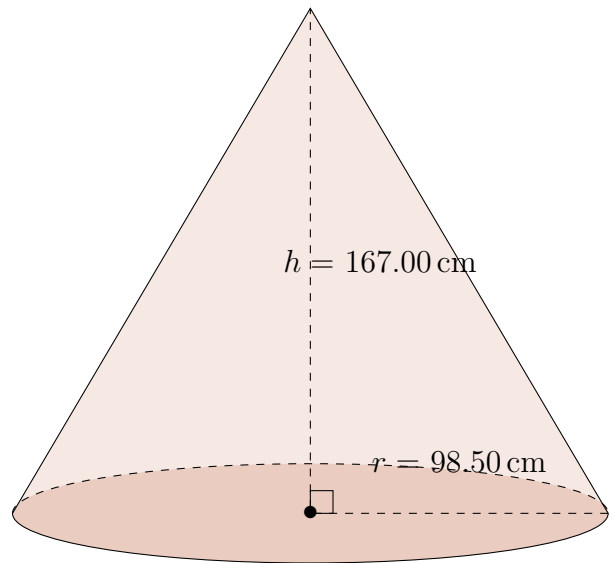
Surface Area: $11,925.3 \text{ m}^2$
Volume: $79,620.5 \text{ m}^3$

3.



Surface Area: $85,145.87 \text{ nm}^2$
Volume: $1,570,045.79 \text{ nm}^3$

4.



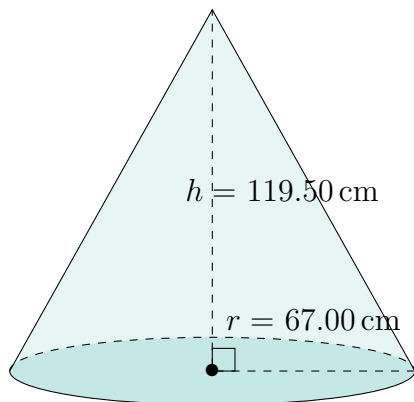
Surface Area: $90,477.51 \text{ cm}^2$
Volume: $1,696,748.80 \text{ cm}^3$

Surface Area and Volume of Cones (H)

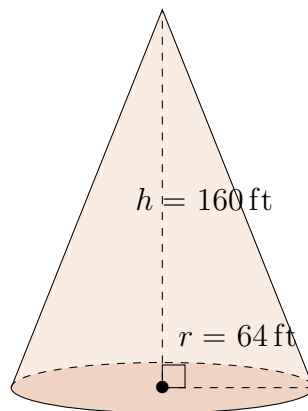
Calculate the surface area and volume for each cone.

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

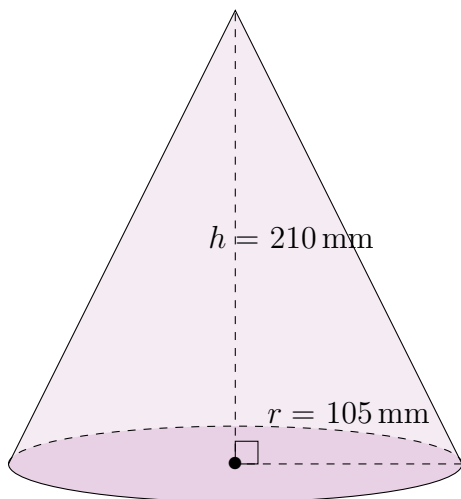
1.



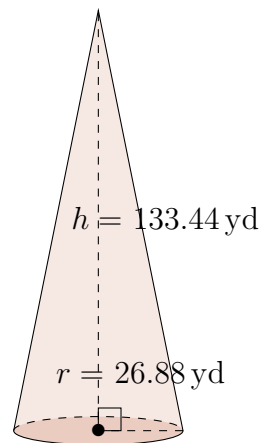
2.



3.



4.

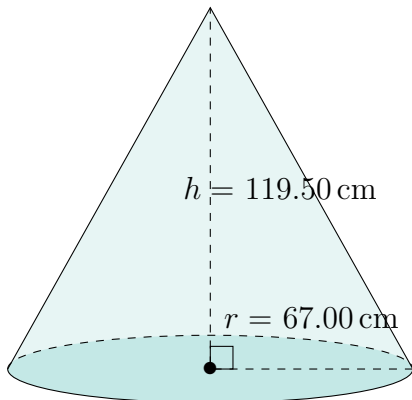


Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

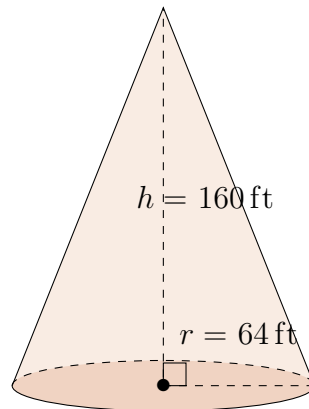
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



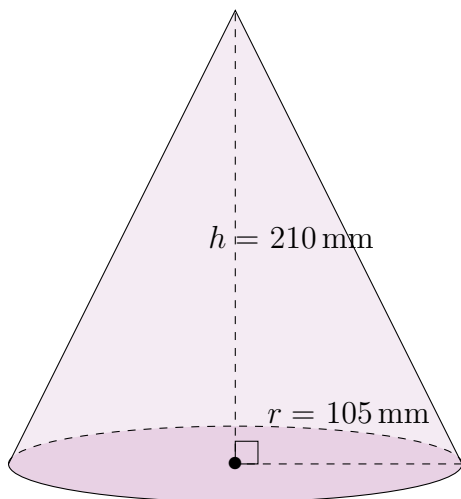
Surface Area: 42,939.48 cm²
Volume: 561,753.94 cm³

2.



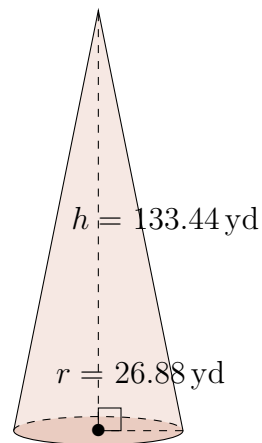
Surface Area: 47,516 ft²
Volume: 686,291 ft³

3.



Surface Area: 112,085 mm²
Volume: 2,424,524 mm³

4.



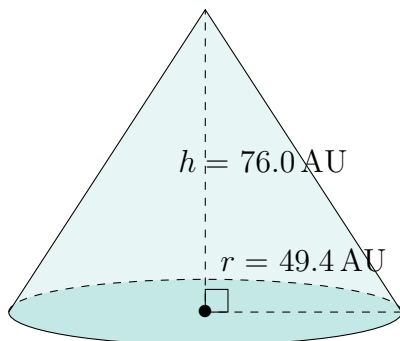
Surface Area: 13,764.73 yd²
Volume: 100,965.54 yd³

Surface Area and Volume of Cones (I)

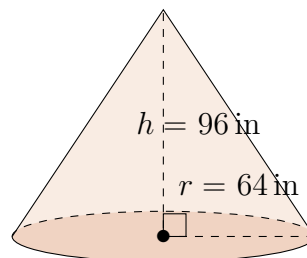
Calculate the surface area and volume for each cone.

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

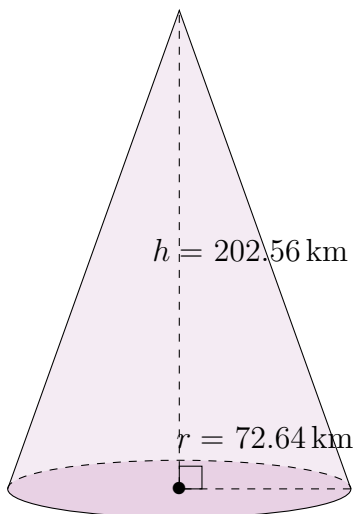
1.



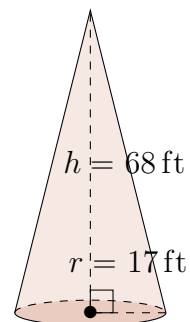
2.



3.



4.

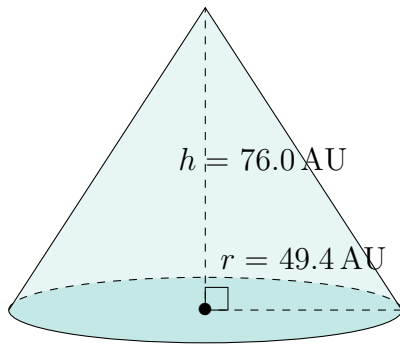


Surface Area and Volume of Cones (I) Answers

Calculate the surface area and volume for each cone.

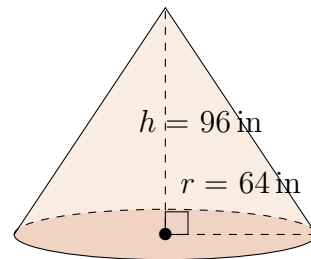
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



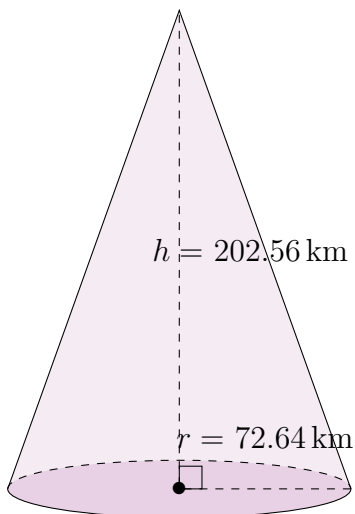
Surface Area: 21,734.1 AU²
Volume: 194,221.0 AU³

2.



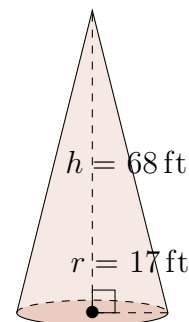
Surface Area: 36,066 in²
Volume: 411,775 in³

3.



Surface Area: 65,684.53 km²
Volume: 1,119,267.72 km³

4.



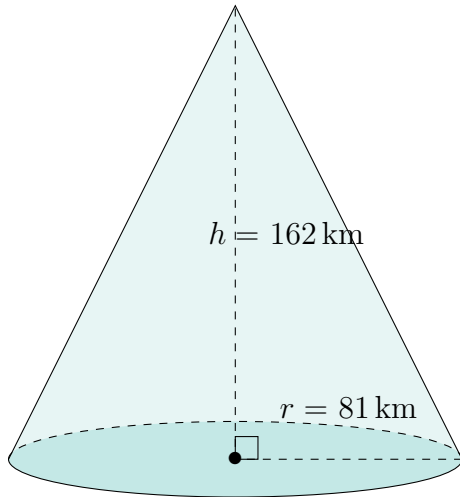
Surface Area: 4651 ft²
Volume: 20,580 ft³

Surface Area and Volume of Cones (J)

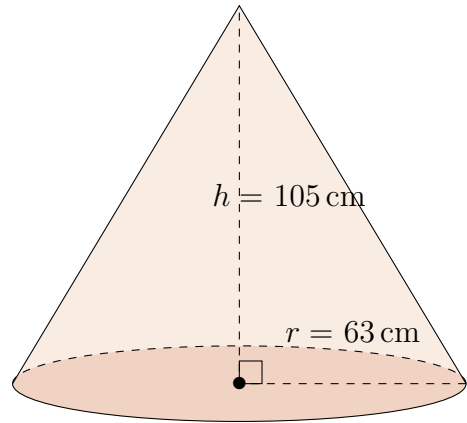
Calculate the surface area and volume for each cone.

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

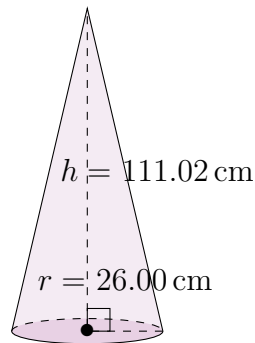
1.



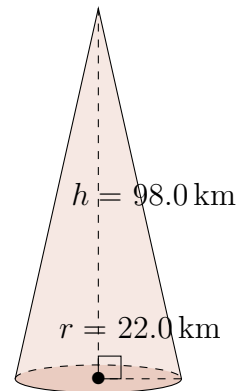
2.



3.



4.

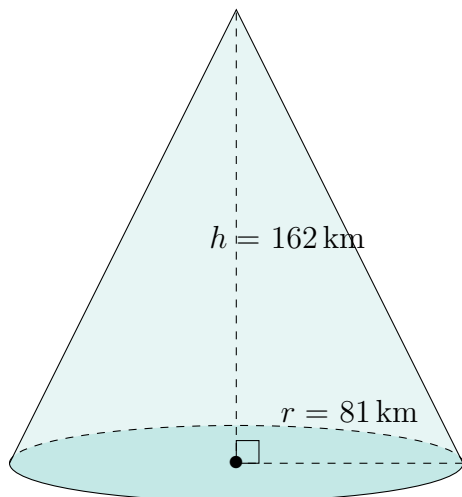


Surface Area and Volume of Cones (J) Answers

Calculate the surface area and volume for each cone.

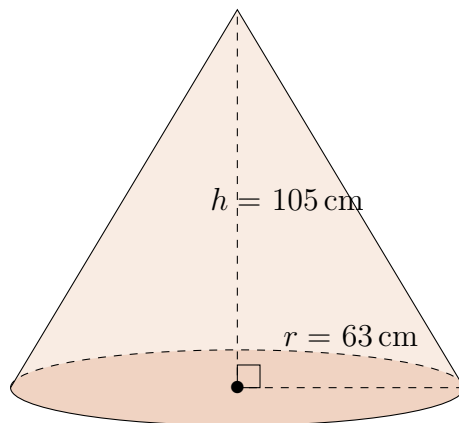
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



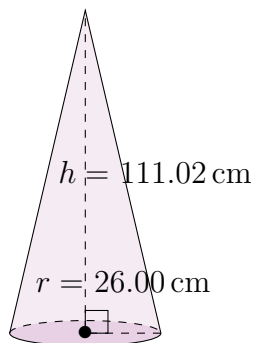
Surface Area: $66,702 \text{ km}^2$
Volume: $1,113,047 \text{ km}^3$

2.



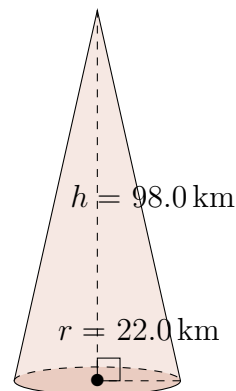
Surface Area: $36,704 \text{ cm}^2$
Volume: $436,414 \text{ cm}^3$

3.



Surface Area: $11,437.35 \text{ cm}^2$
Volume: $78,591.67 \text{ cm}^3$

4.



Surface Area: 8462.4 km^2
Volume: $49,670.7 \text{ km}^3$