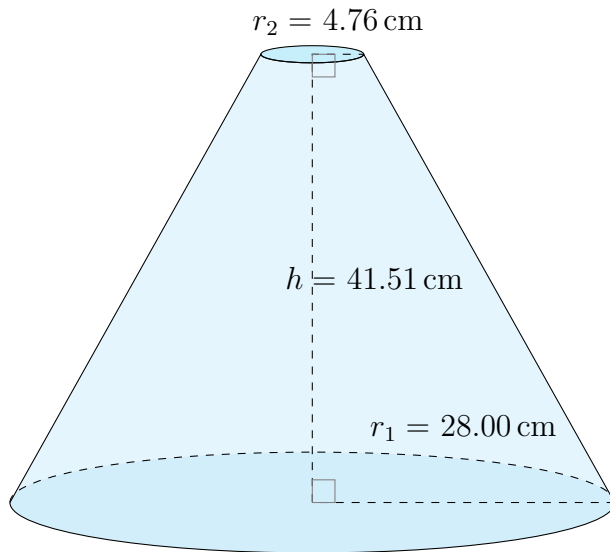


Surface Area and Volume of Conical Frustums (A)

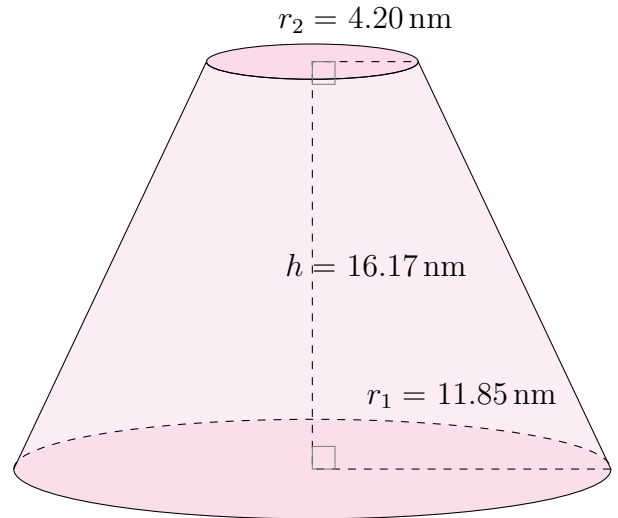
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

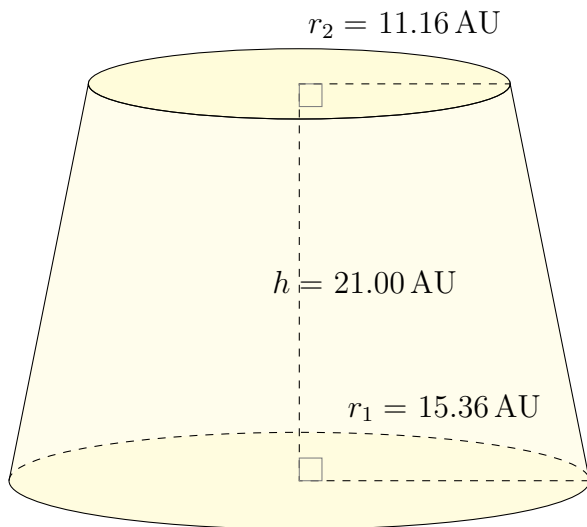
1.



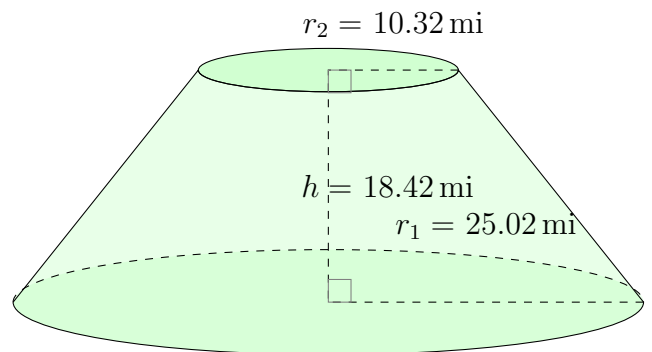
2.



3.



4.

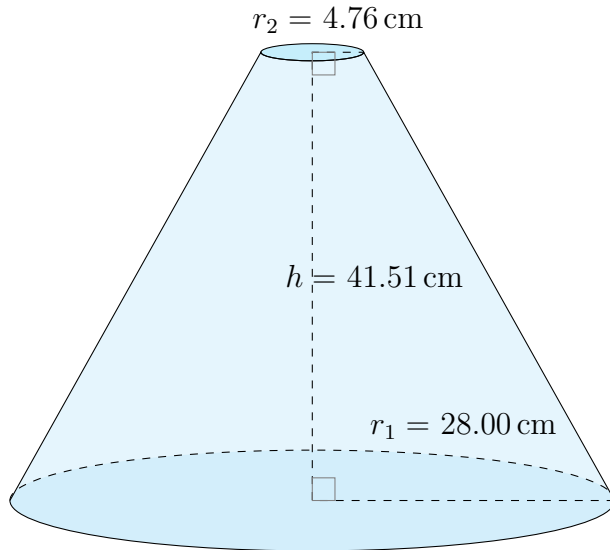


Surface Area and Volume of Conical Frustums (A) Answers

Calculate the surface area and volume for each conical frustum.

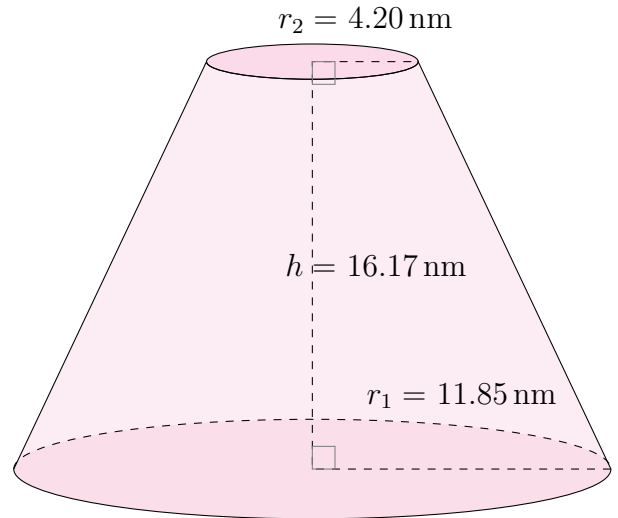
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



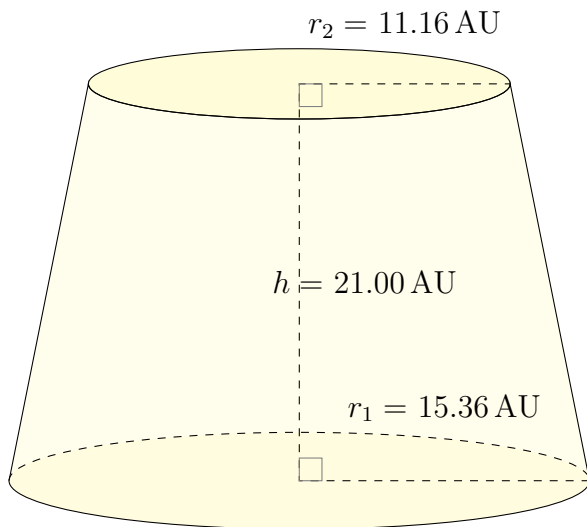
Surface Area: 7430.32 cm^2
Volume: $40,858.31 \text{ cm}^3$

2.



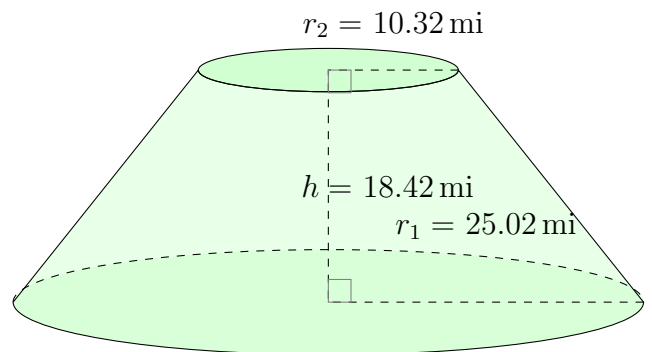
Surface Area: 1398.54 nm^2
Volume: 3519.27 nm^3

3.



Surface Area: 2916.73 AU^2
Volume: $11,696.93 \text{ AU}^3$

4.



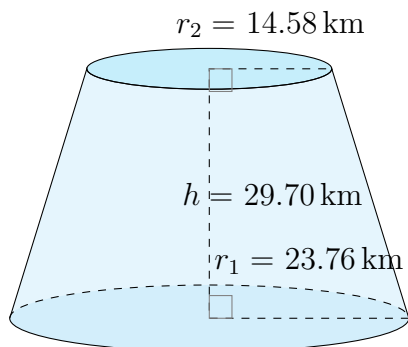
Surface Area: 4917.69 mi^2
Volume: $19,110.17 \text{ mi}^3$

Surface Area and Volume of Conical Frustums (B)

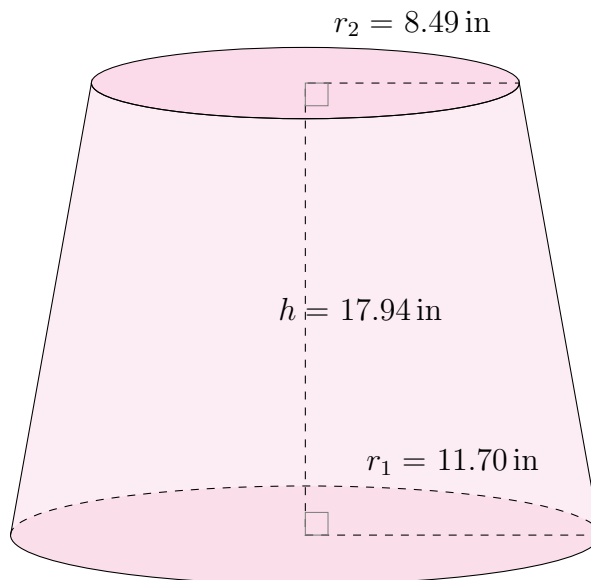
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

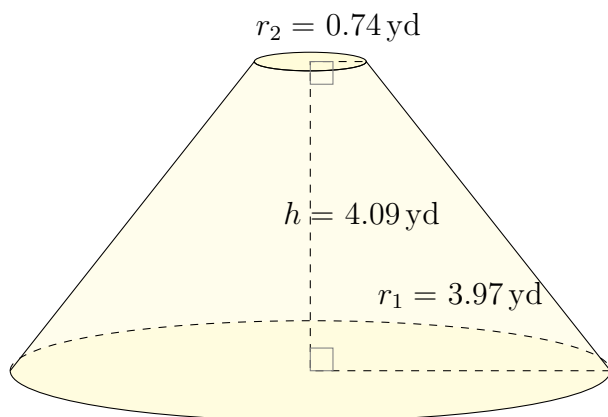
1.



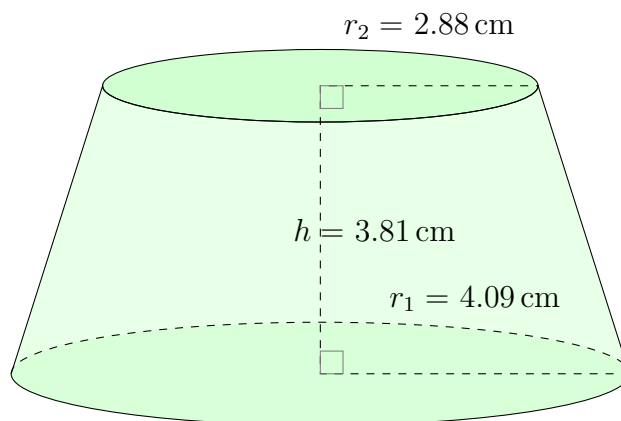
2.



3.



4.

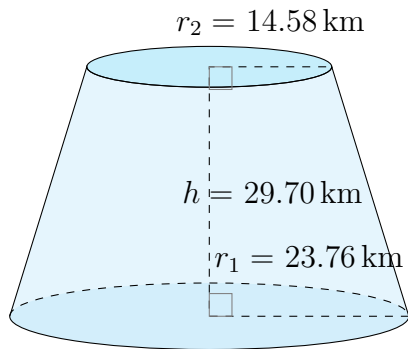


Surface Area and Volume of Conical Frustums (B) Answers

Calculate the surface area and volume for each conical frustum.

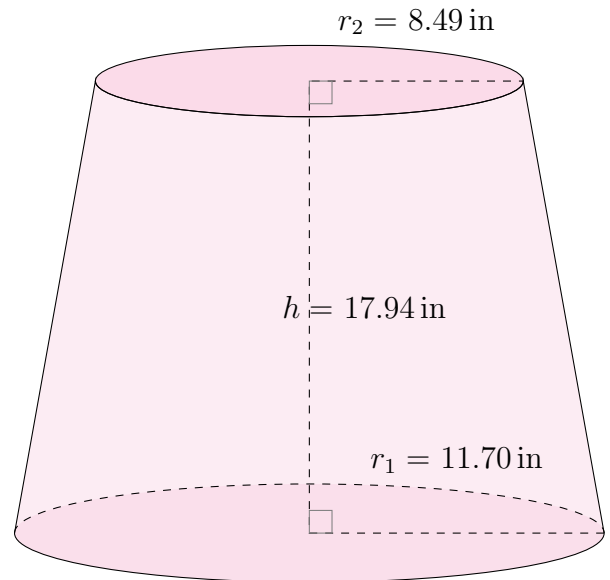
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



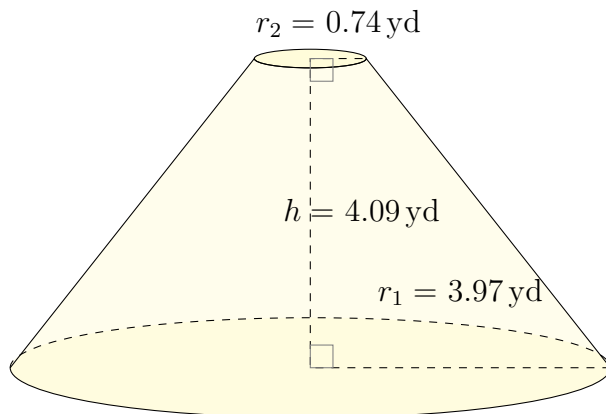
Surface Area: 6185.69 km^2
Volume: $34,943.92 \text{ km}^3$

2.



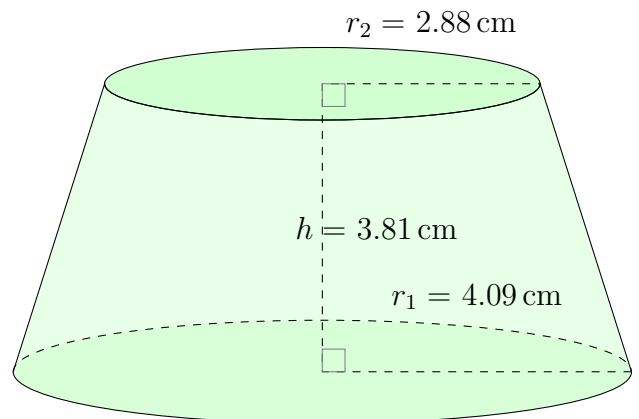
Surface Area: 1812.48 in^2
Volume: 5792.01 in^3

3.



Surface Area: 128.35 yd^2
Volume: 82.43 yd^3

4.



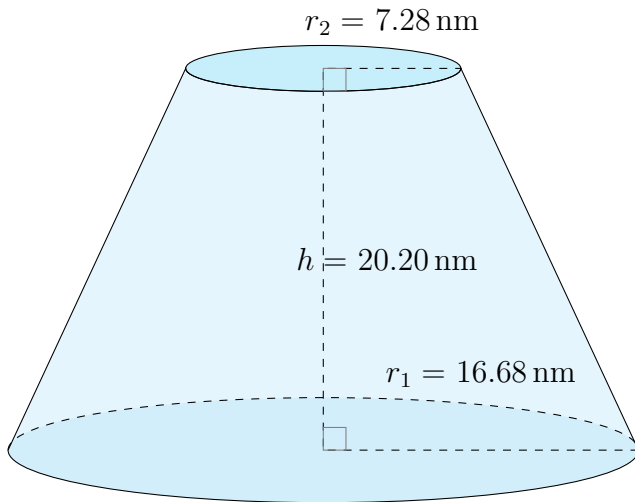
Surface Area: 166.14 cm^2
Volume: 146.83 cm^3

Surface Area and Volume of Conical Frustums (C)

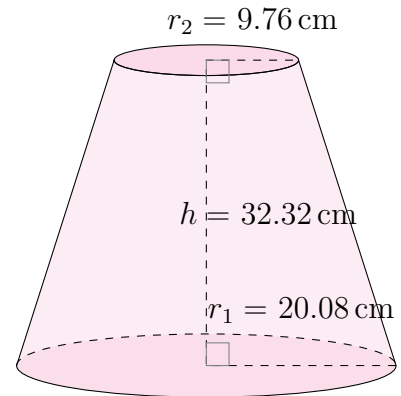
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

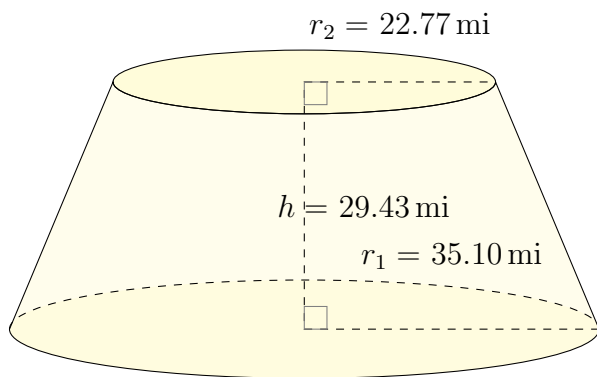
1.



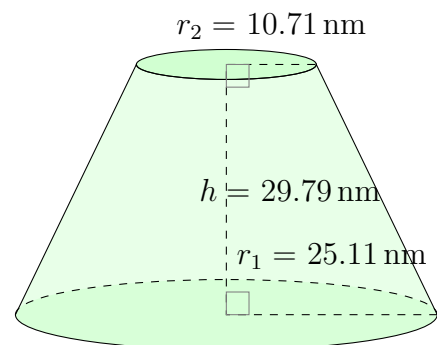
2.



3.



4.

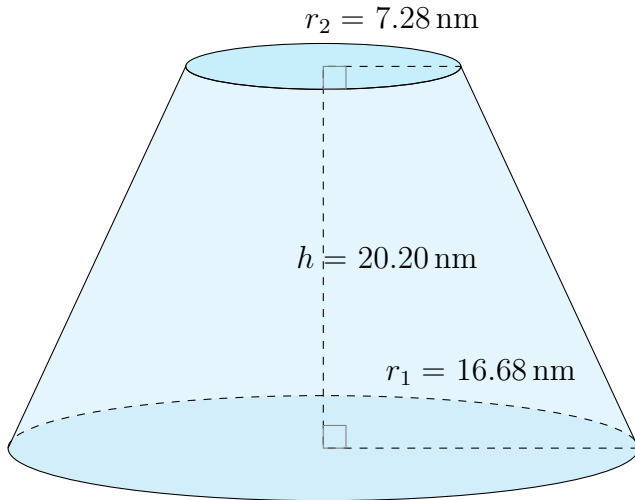


Surface Area and Volume of Conical Frustums (C) Answers

Calculate the surface area and volume for each conical frustum.

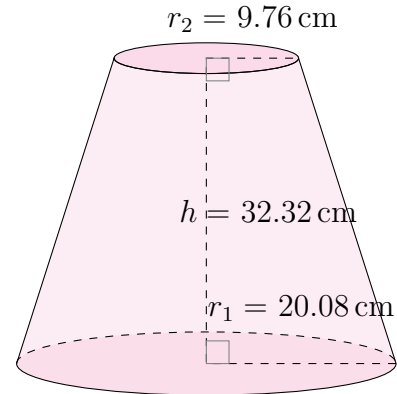
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



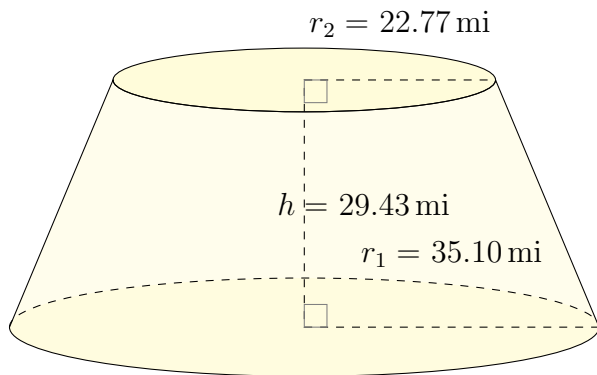
Surface Area: 2717.64 nm^2
Volume: 9575.11 nm^3

2.



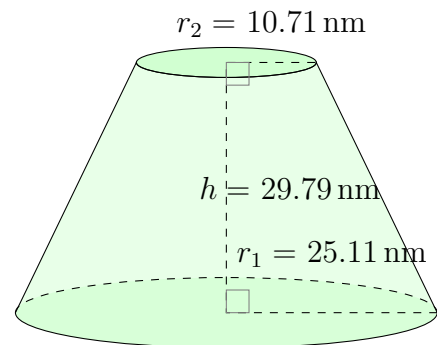
Surface Area: 4746.52 cm^2
Volume: $23,503.78 \text{ cm}^3$

3.



Surface Area: $11,300.40 \text{ mi}^2$
Volume: $78,579.57 \text{ mi}^3$

4.



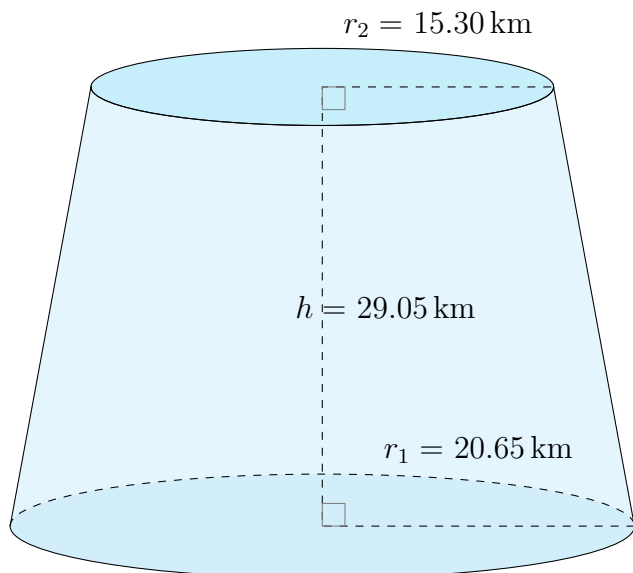
Surface Area: 6064.60 nm^2
Volume: $31,637.26 \text{ nm}^3$

Surface Area and Volume of Conical Frustums (D)

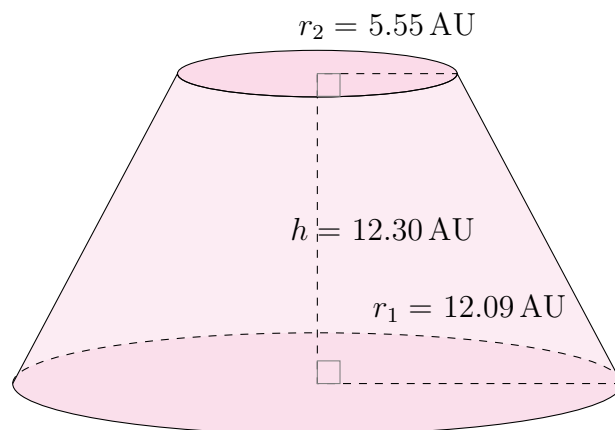
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

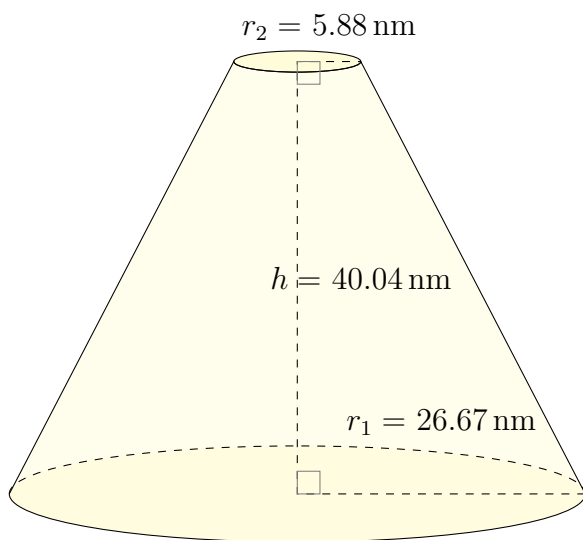
1.



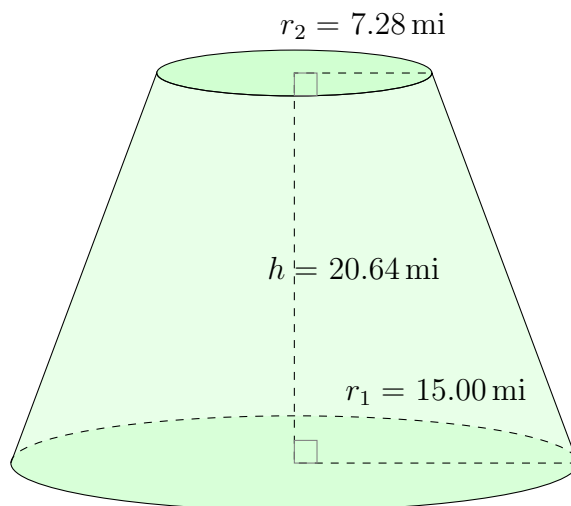
2.



3.



4.

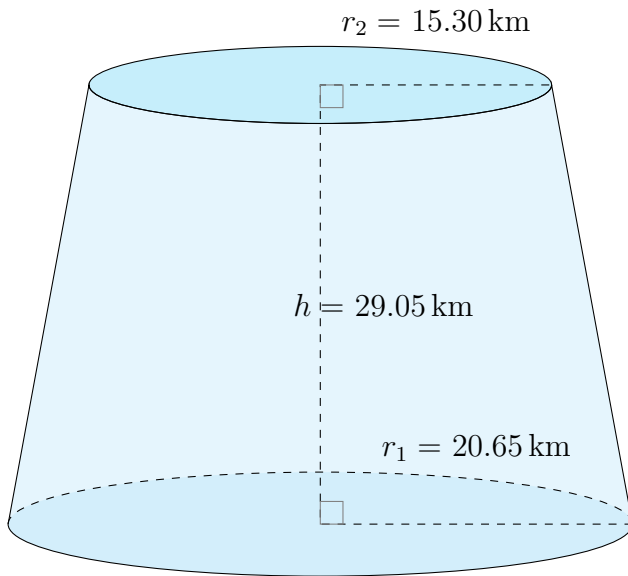


Surface Area and Volume of Conical Frustums (D) Answers

Calculate the surface area and volume for each conical frustum.

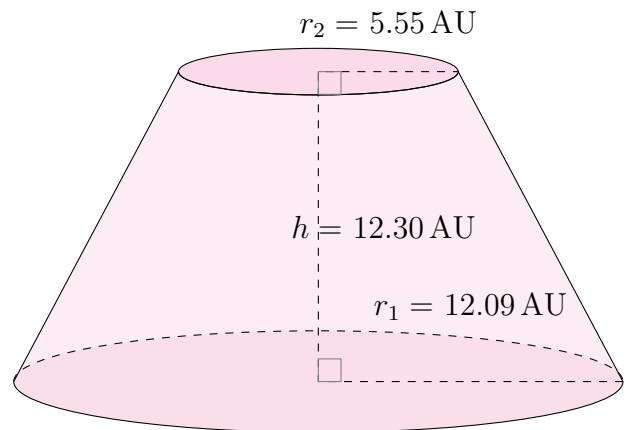
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



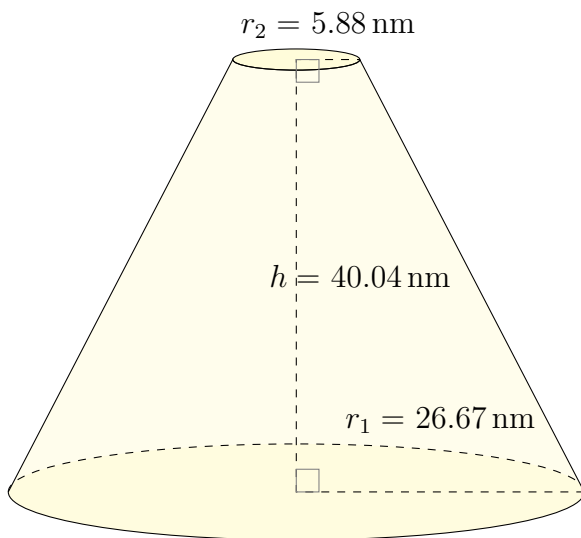
Surface Area: 5411.15 km^2
Volume: $29,704.90 \text{ km}^3$

2.



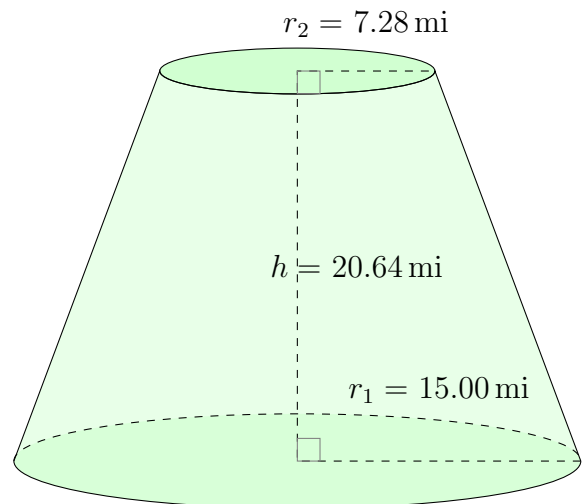
Surface Area: 1327.97 AU^2
Volume: 3143.75 AU^3

3.



Surface Area: 6956.68 nm^2
Volume: $37,849.30 \text{ nm}^3$

4.



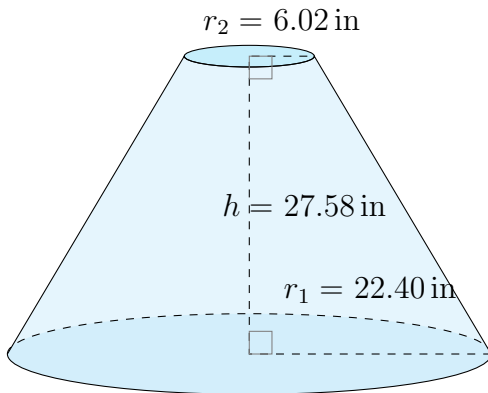
Surface Area: 2415.80 mi^2
Volume: 8368.97 mi^3

Surface Area and Volume of Conical Frustums (E)

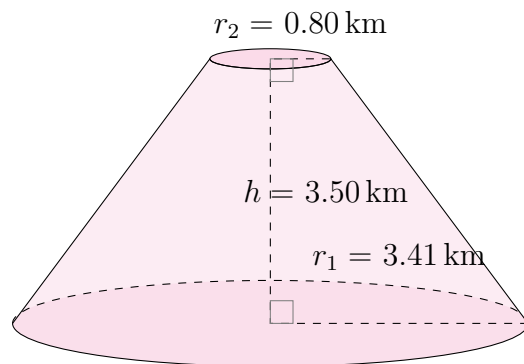
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

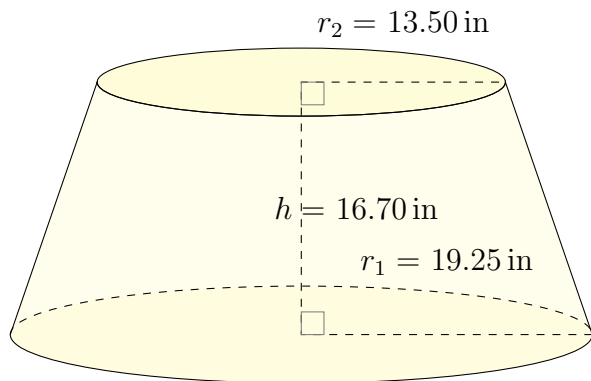
1.



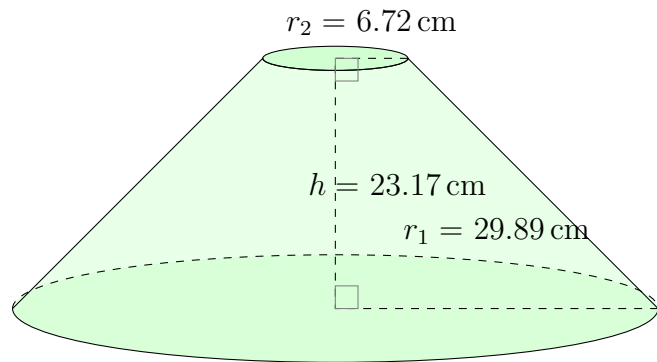
2.



3.



4.

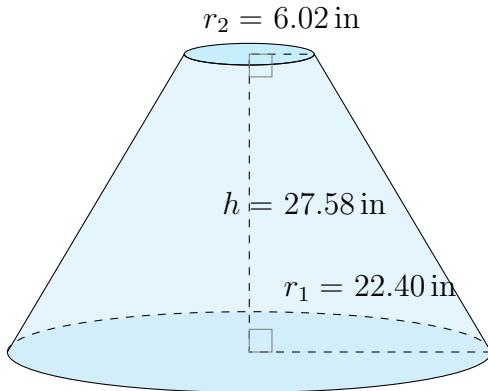


Surface Area and Volume of Conical Frustums (E) Answers

Calculate the surface area and volume for each conical frustum.

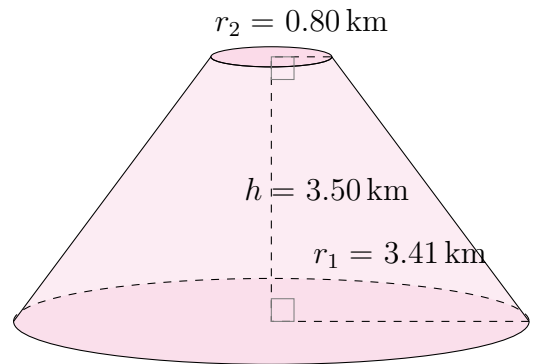
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



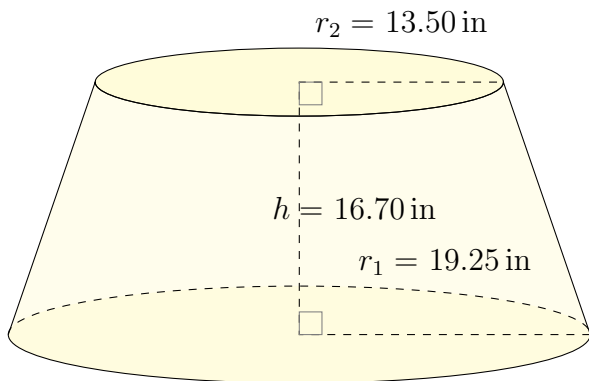
Surface Area: 4554.18 in^2
Volume: $19,433.01 \text{ in}^3$

2.



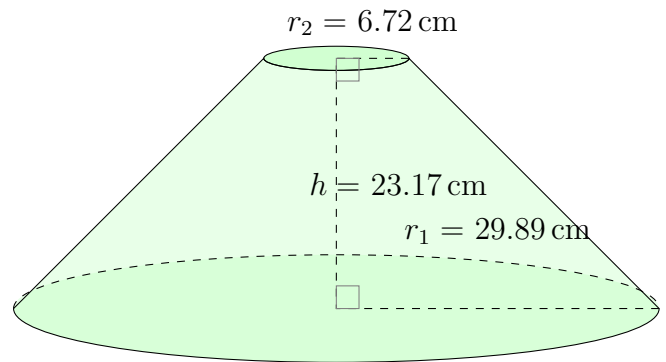
Surface Area: 96.29 km^2
Volume: 54.96 km^3

3.



Surface Area: 3553.92 in^2
Volume: $14,212.44 \text{ in}^3$

4.



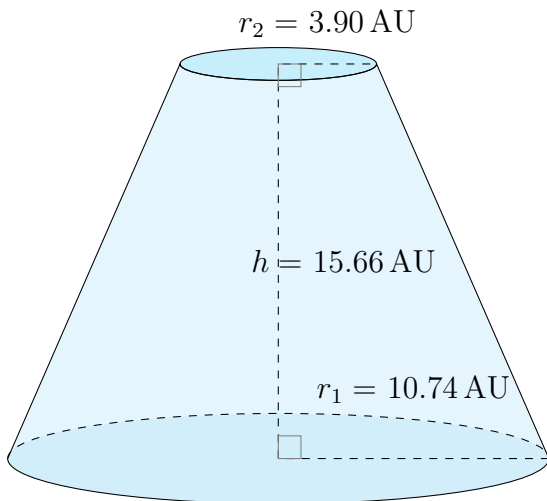
Surface Area: 6717.30 cm^2
Volume: $27,646.67 \text{ cm}^3$

Surface Area and Volume of Conical Frustums (F)

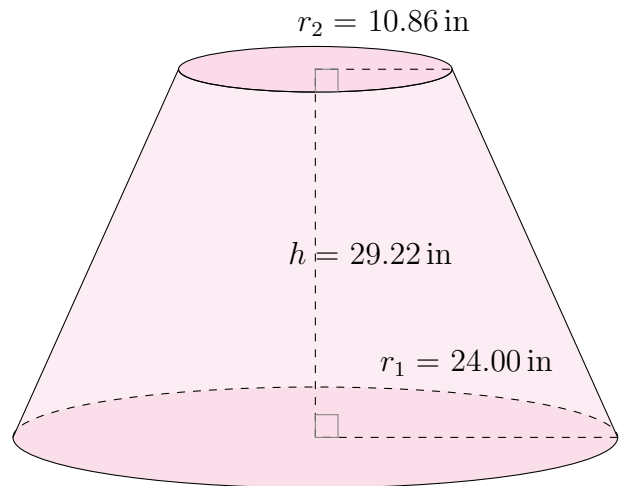
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

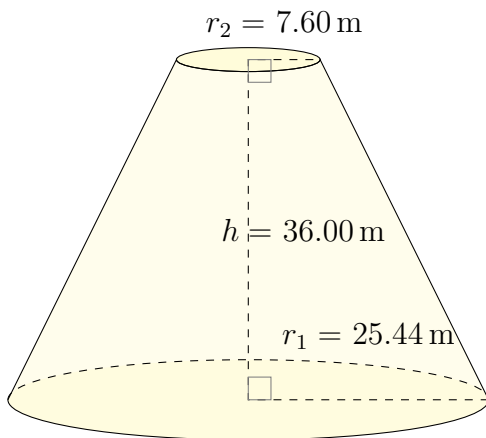
1.



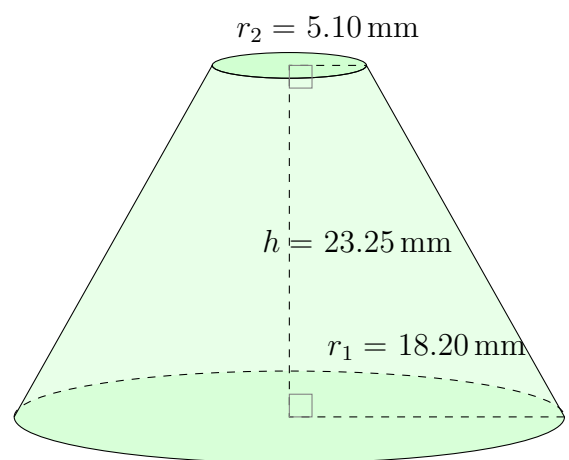
2.



3.



4.

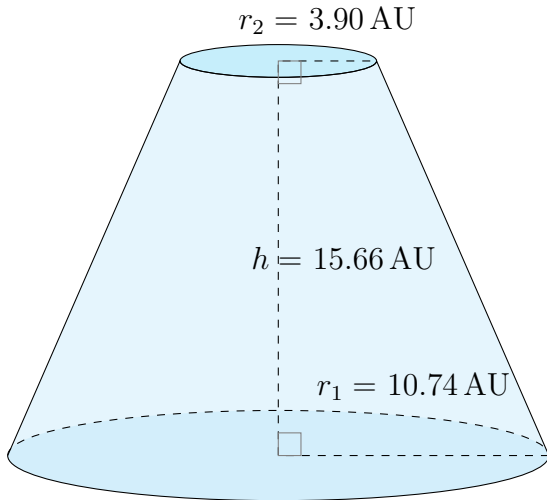


Surface Area and Volume of Conical Frustums (F) Answers

Calculate the surface area and volume for each conical frustum.

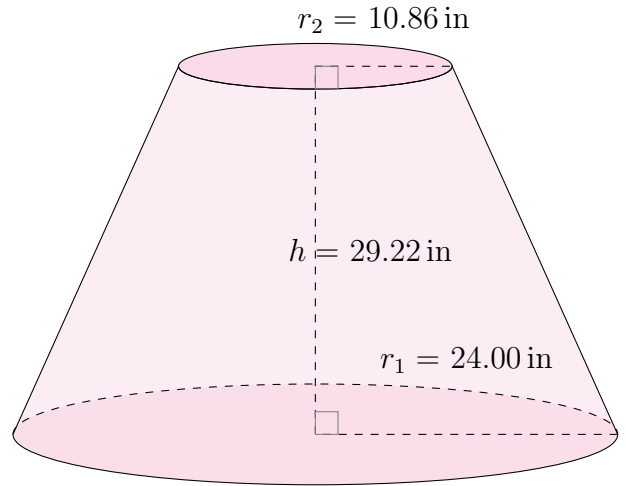
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



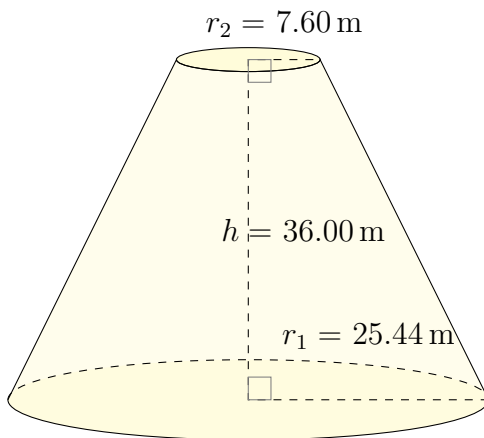
Surface Area: 1196.11 AU²
Volume: 2827.92 AU³

2.



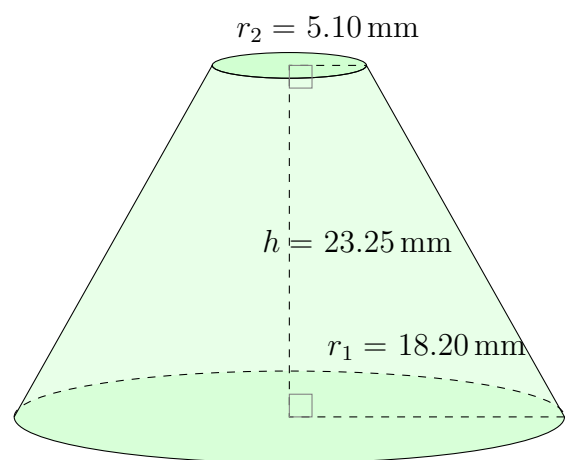
Surface Area: 5688.81 in²
Volume: 29,209.29 in³

3.



Surface Area: 6385.07 m²
Volume: 33,865.02 m³

4.



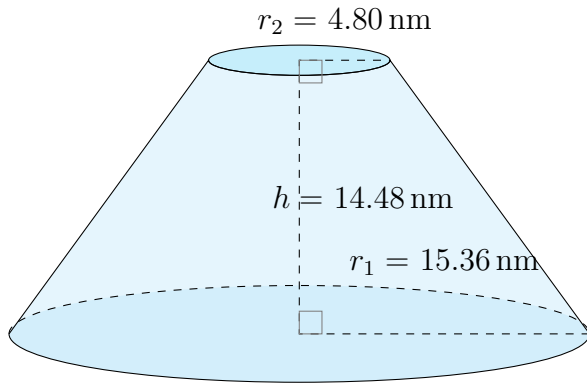
Surface Area: 3075.77 mm²
Volume: 10,958.01 mm³

Surface Area and Volume of Conical Frustums (G)

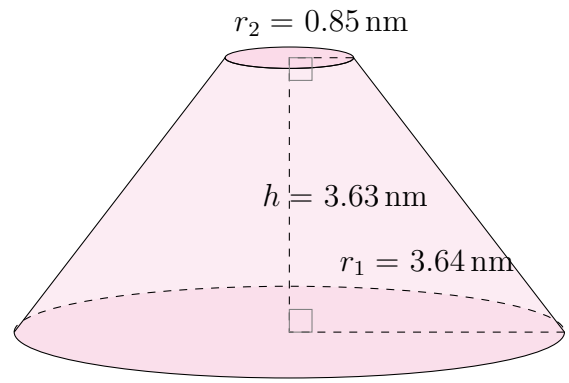
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

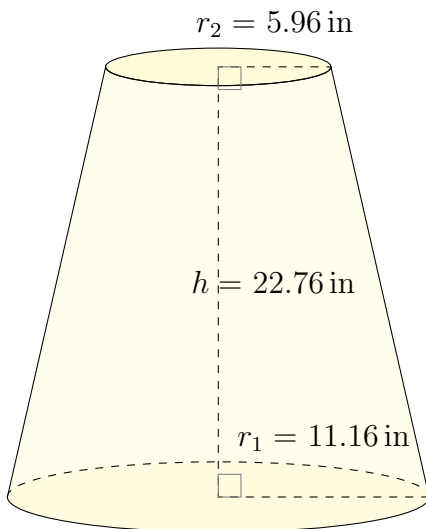
1.



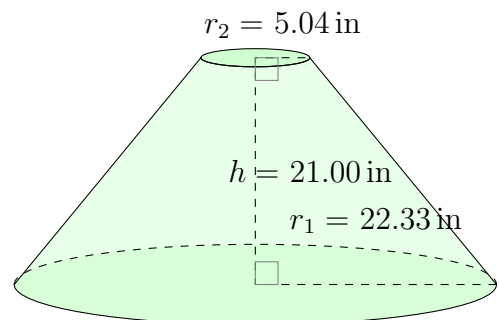
2.



3.



4.

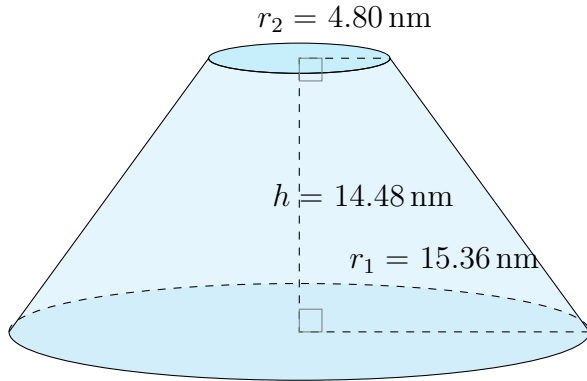


Surface Area and Volume of Conical Frustums (G) Answers

Calculate the surface area and volume for each conical frustum.

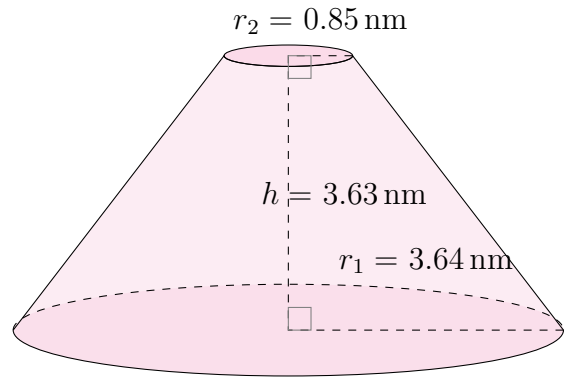
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



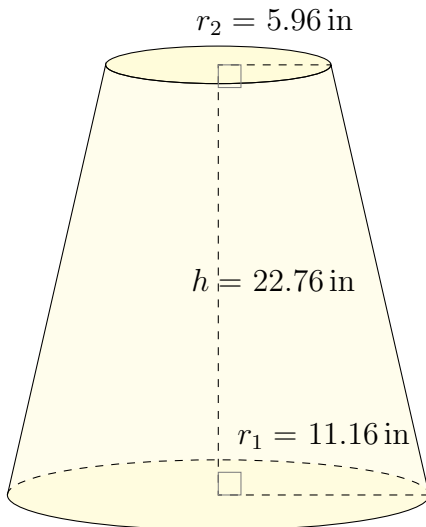
Surface Area: 1948.63 nm^2
Volume: 5044.83 nm^3

2.



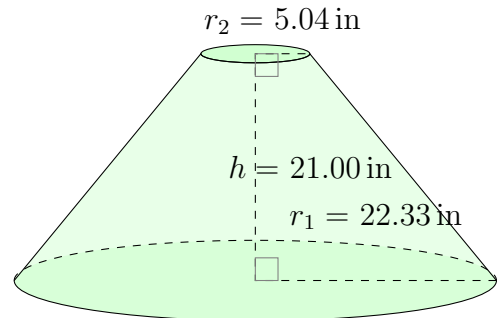
Surface Area: 108.48 nm^2
Volume: 64.87 nm^3

3.



Surface Area: 1758.53 in^2
Volume: 5400.38 in^3

4.



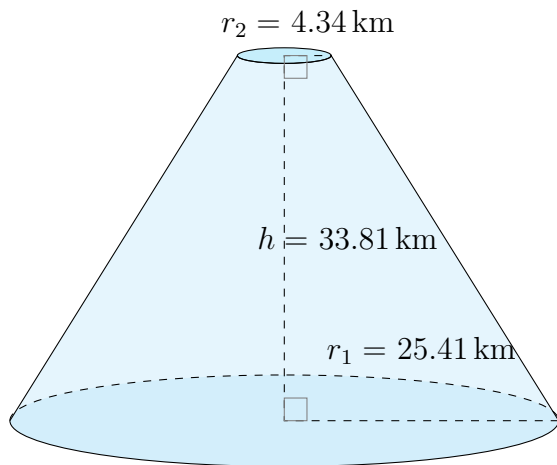
Surface Area: 3985.26 in^2
Volume: $13,998.99 \text{ in}^3$

Surface Area and Volume of Conical Frustums (H)

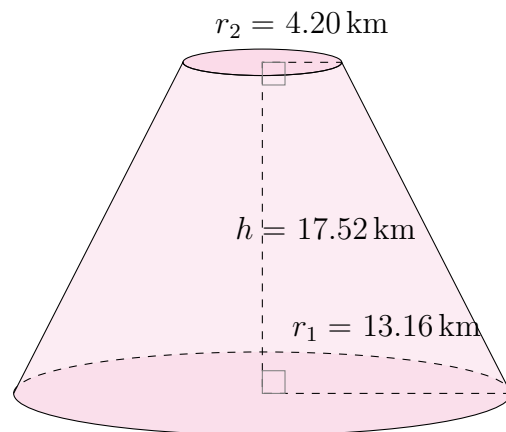
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

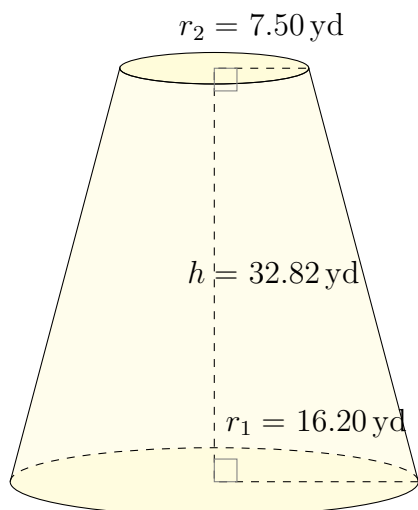
1.



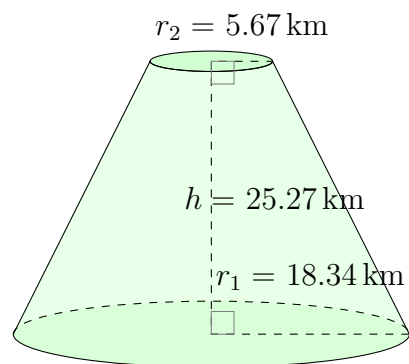
2.



3.



4.

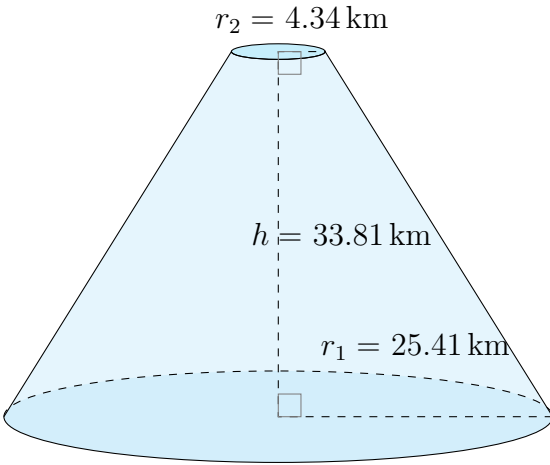


Surface Area and Volume of Conical Frustums (H) Answers

Calculate the surface area and volume for each conical frustum.

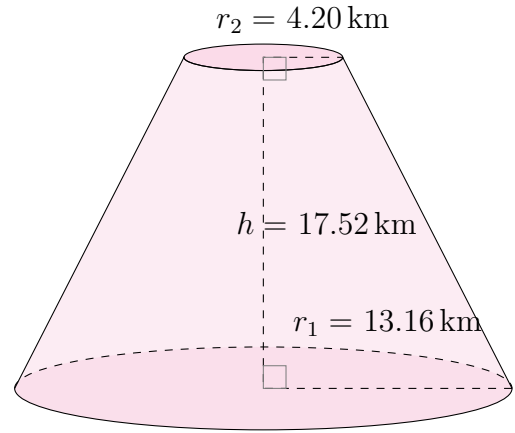
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



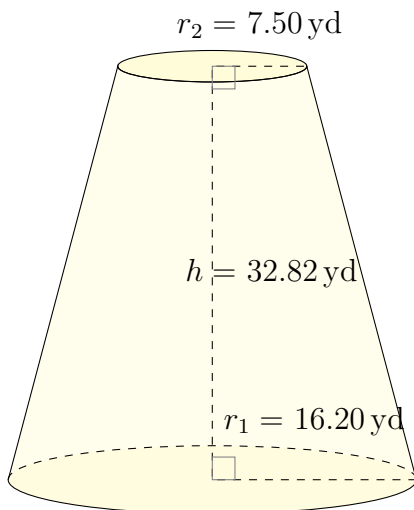
Surface Area: 5810.95 km^2
Volume: $27,431.78 \text{ km}^3$

2.



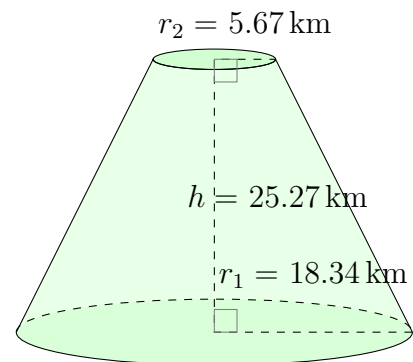
Surface Area: 1672.71 km^2
Volume: 4515.13 km^3

3.



Surface Area: 3529.23 yd^2
Volume: $15,128.90 \text{ yd}^3$

4.



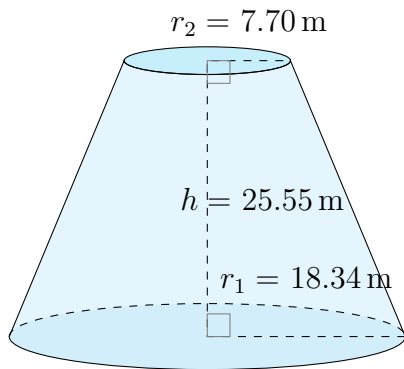
Surface Area: 3289.97 km^2
Volume: $12,503.41 \text{ km}^3$

Surface Area and Volume of Conical Frustums (I)

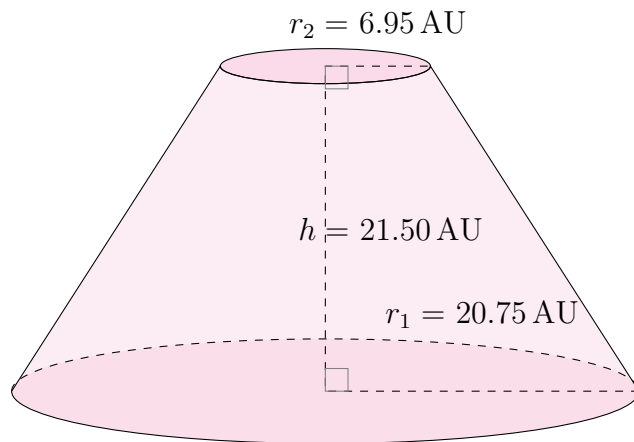
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

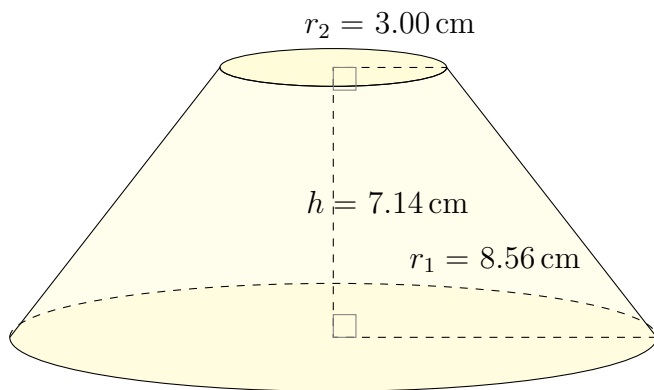
1.



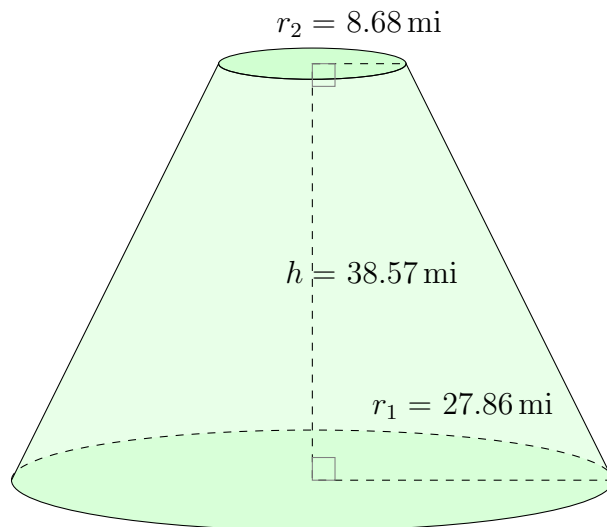
2.



3.



4.

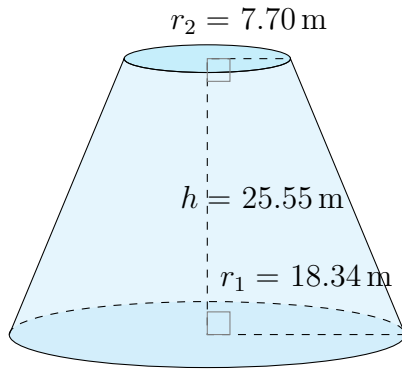


Surface Area and Volume of Conical Frustums (I) Answers

Calculate the surface area and volume for each conical frustum.

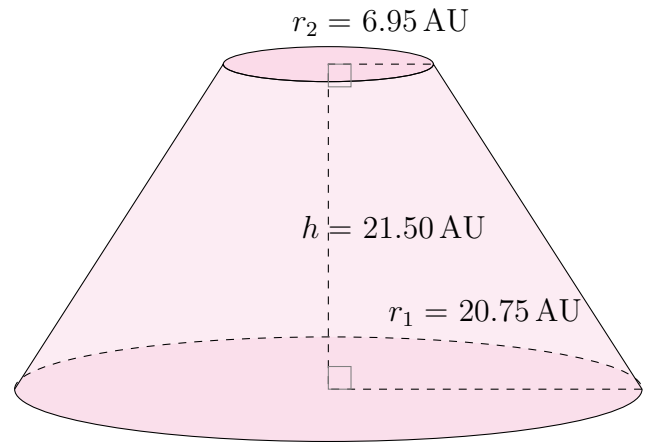
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



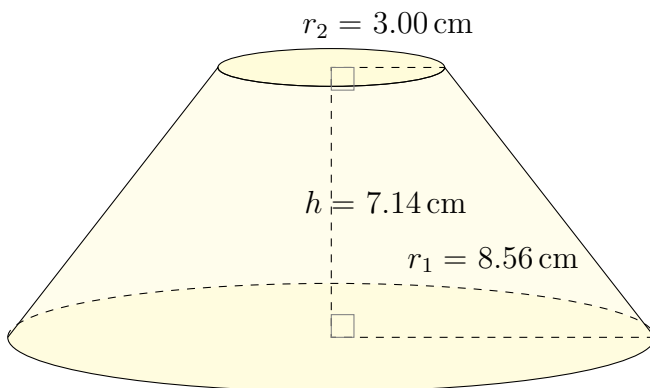
Surface Area: 3507.13 m^2
Volume: $14,364.27 \text{ m}^3$

2.



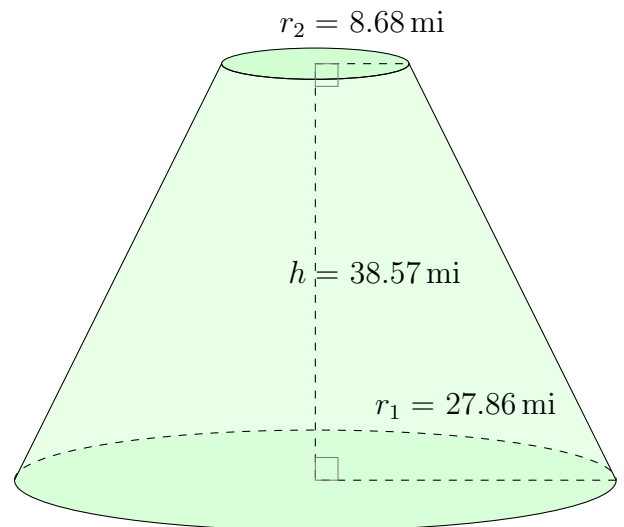
Surface Area: 3727.62 AU^2
Volume: $14,028.43 \text{ AU}^3$

3.



Surface Area: 587.12 cm^2
Volume: 807.17 cm^3

4.



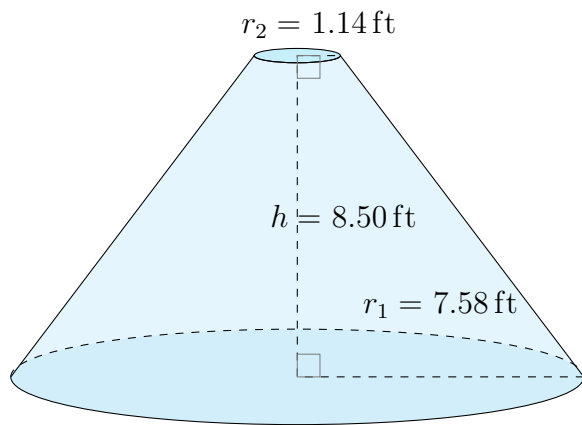
Surface Area: 7619.96 mi^2
Volume: $44,160.73 \text{ mi}^3$

Surface Area and Volume of Conical Frustums (J)

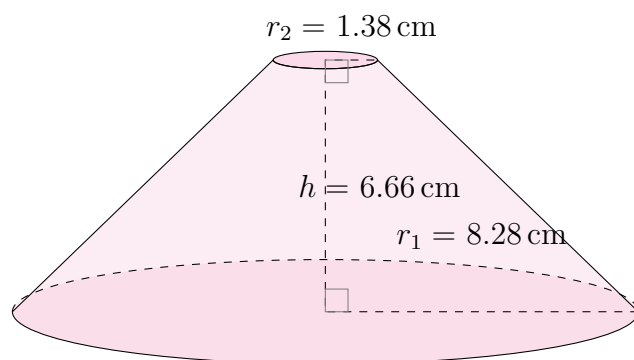
Calculate the surface area and volume for each conical frustum.

$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

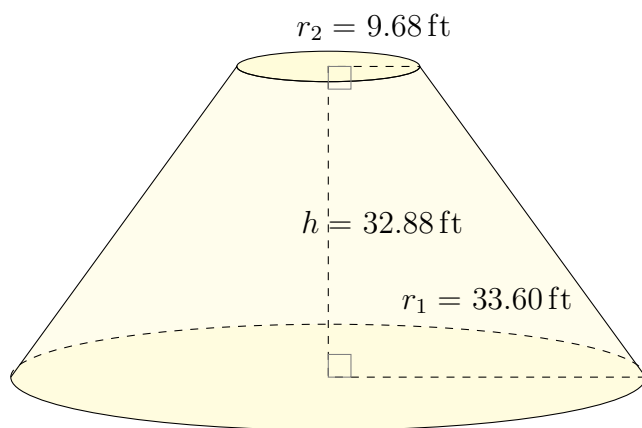
1.



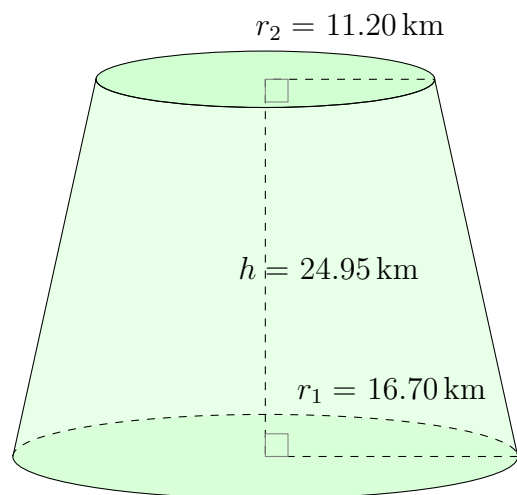
2.



3.



4.

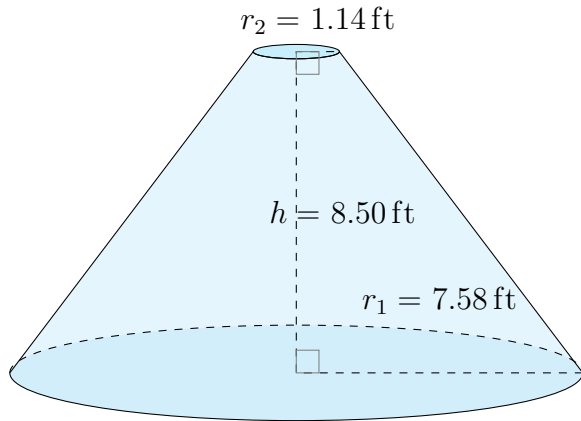


Surface Area and Volume of Conical Frustums (J) Answers

Calculate the surface area and volume for each conical frustum.

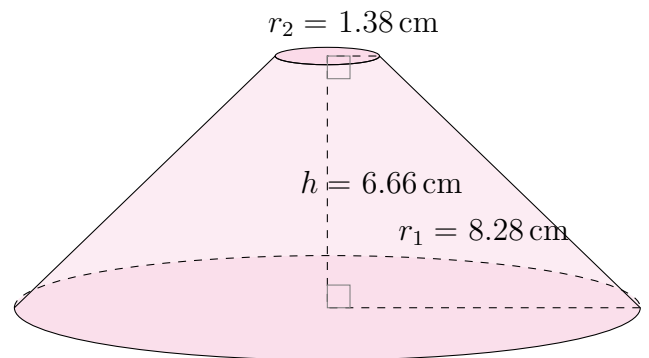
$$\text{Surface Area} = \pi(r_1 + r_2)\sqrt{(r_1 - r_2)^2 + h^2} + \pi r_1^2 + \pi r_2^2 \quad \text{Volume} = \frac{\pi}{3}h(r_1^2 + r_2^2 + r_1 r_2)$$

1.



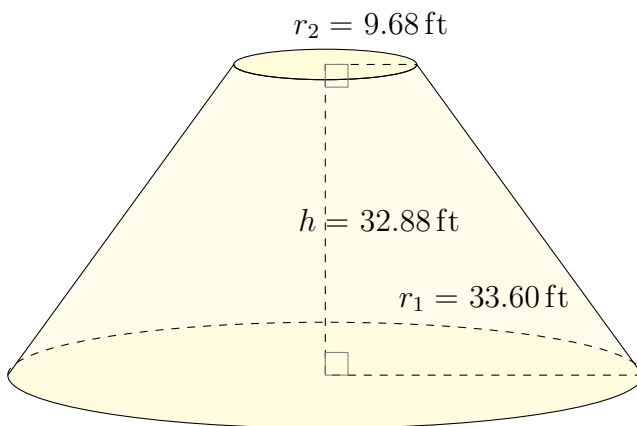
Surface Area: 476.73 ft^2
Volume: 599.91 ft^3

2.



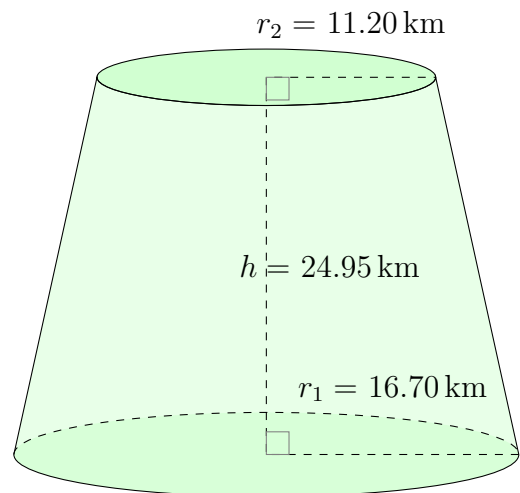
Surface Area: 512.40 cm^2
Volume: 571.12 cm^3

3.



Surface Area: 9369.61 ft^2
Volume: $53,297.43 \text{ ft}^3$

4.



Surface Area: 3509.62 km^2
Volume: $15,451.07 \text{ km}^3$