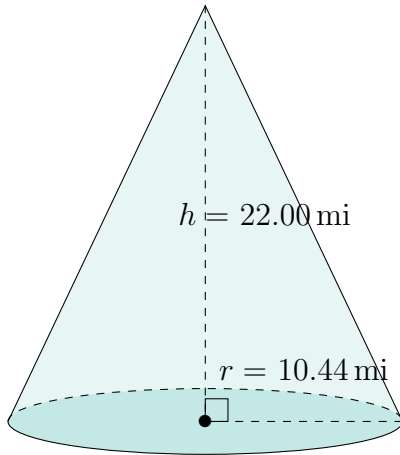


Surface Area and Volume of Cones (I)

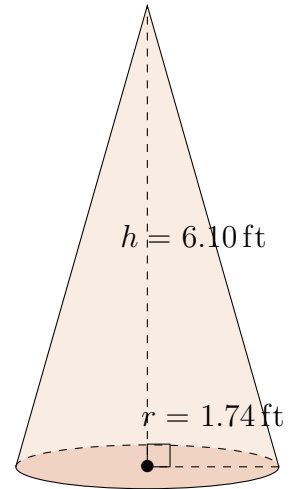
Calculate the surface area and volume for each cone.

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

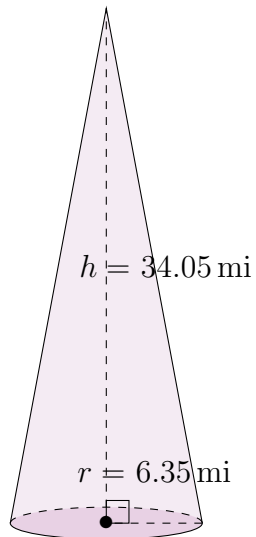
1.



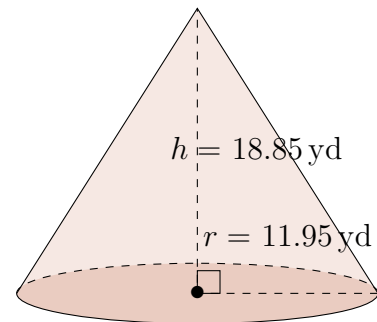
2.



3.



4.

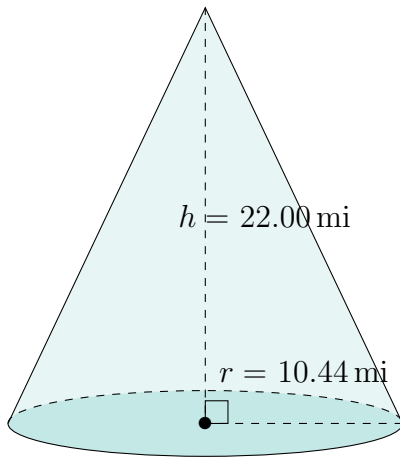


Surface Area and Volume of Cones (I) Answers

Calculate the surface area and volume for each cone.

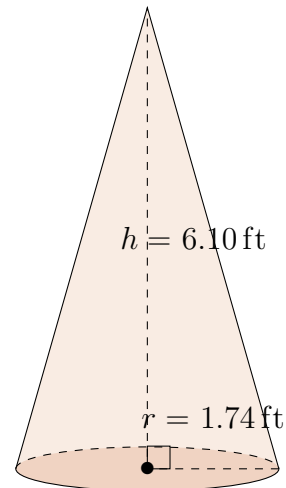
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



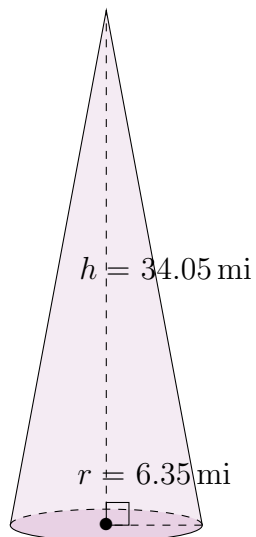
Surface Area: 1141.10 mi^2
Volume: 2511.03 mi^3

2.



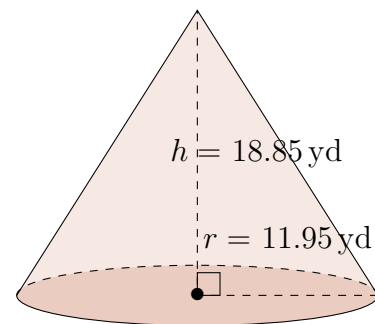
Surface Area: 44.19 ft^2
Volume: 19.34 ft^3

3.



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

4.



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