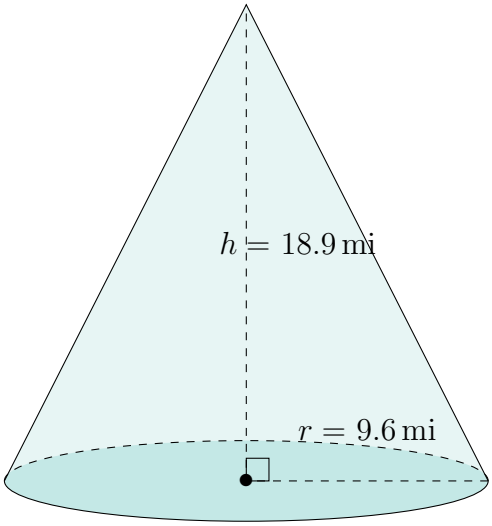
Surface Area and Volume of Cones (A)

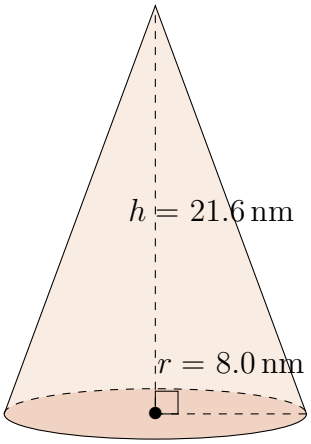
Calculate the surface area and volume for each cone.

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

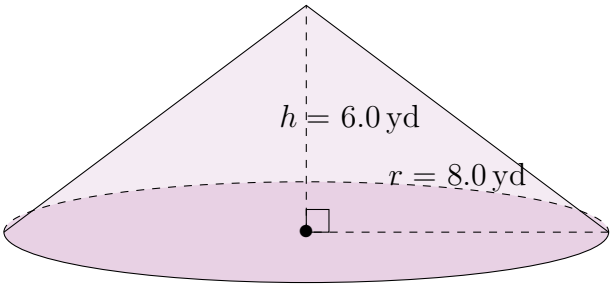
1.



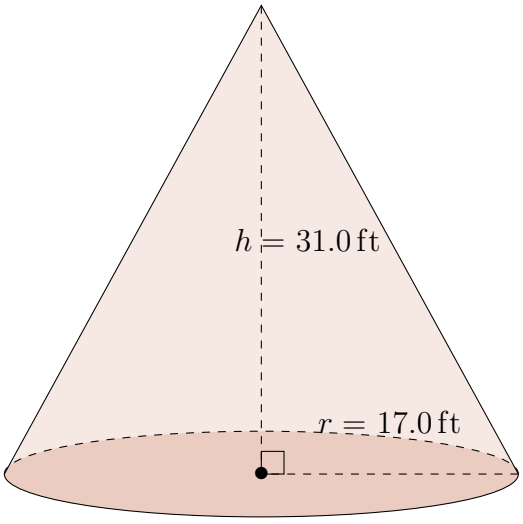
2.



3.



4.

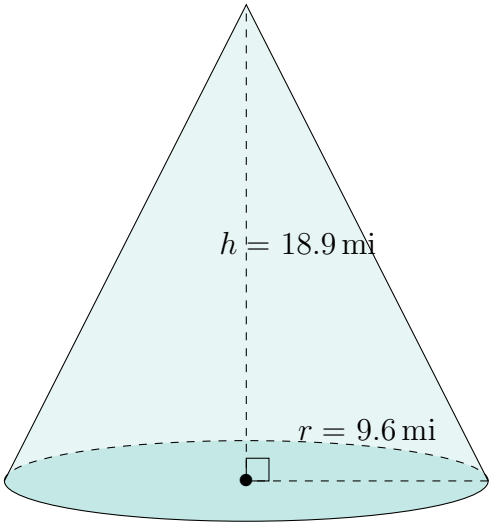


Surface Area and Volume of Cones (A) Answers

Calculate the surface area and volume for each cone.

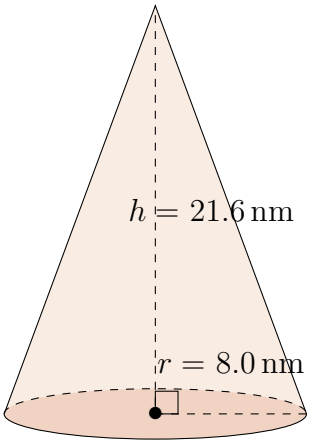
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



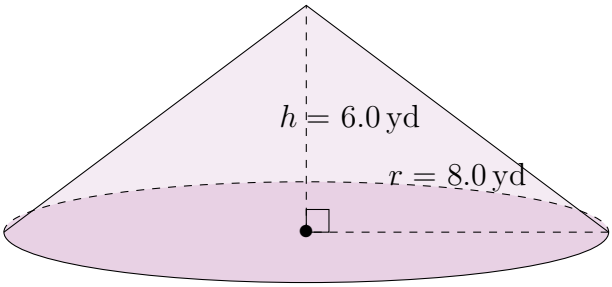
Surface Area: $928.9\,\text{mi}^2$
Volume: $1824.0\,\text{mi}^3$

2.



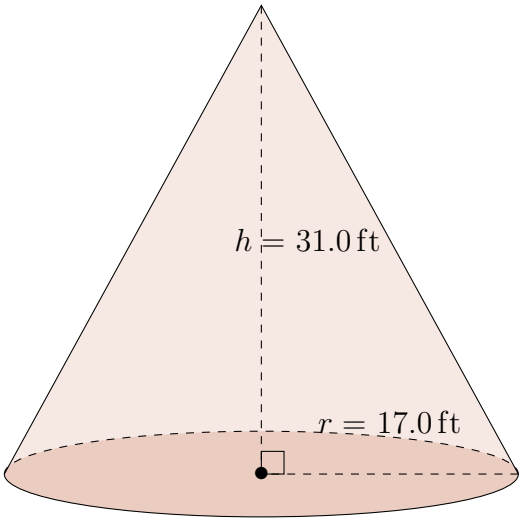
Surface Area: $780.0\,\text{nm}^2$
Volume: $1447.6\,\text{nm}^3$

3.



Surface Area: $452.4\,\text{yd}^2$
Volume: $402.1\,\text{yd}^3$

4.



Surface Area: $2796.1\,\text{ft}^2$
Volume: $9381.8\,\text{ft}^3$