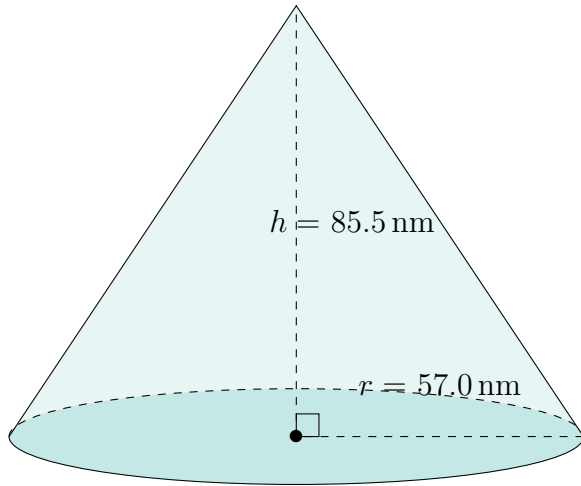


# Surface Area and Volume of Cones (F)

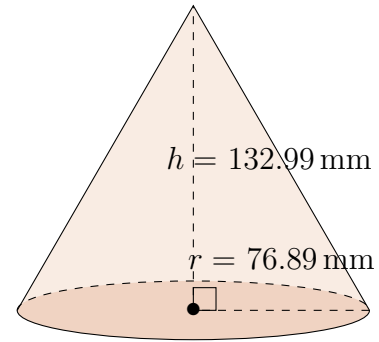
Calculate the surface area and volume for each cone.

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

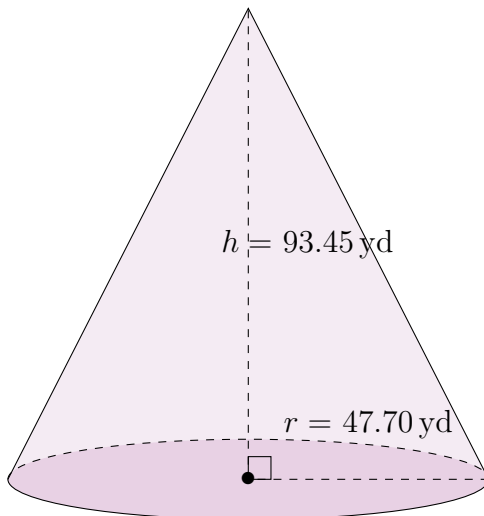
1.



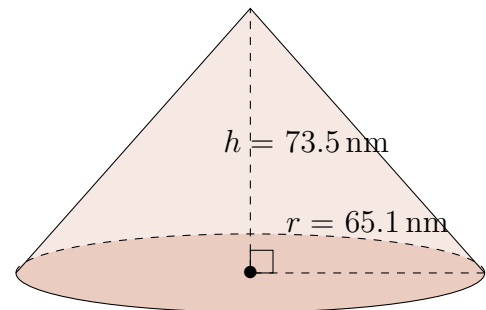
2.



3.



4.

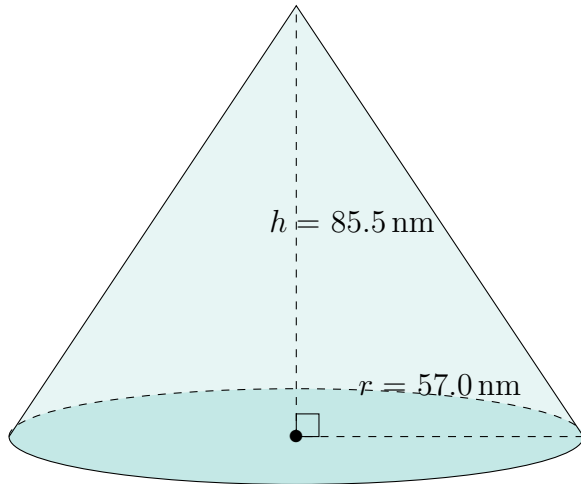


# Surface Area and Volume of Cones (F) Answers

Calculate the surface area and volume for each cone.

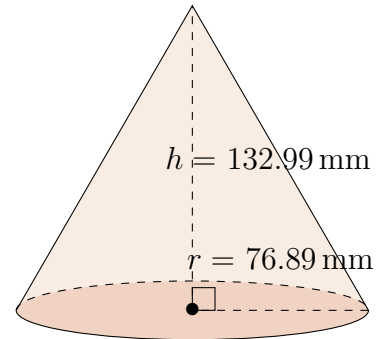
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



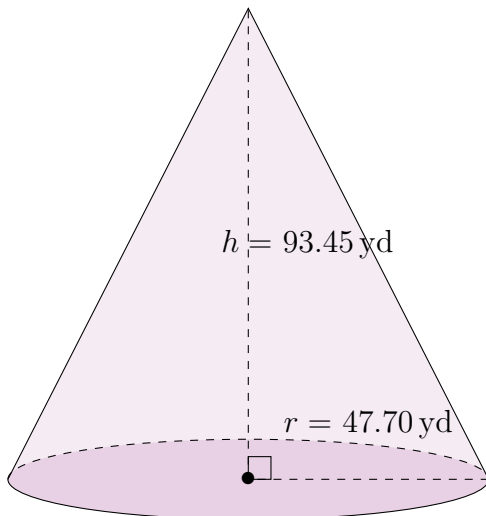
Surface Area: 28,608.0 nm<sup>2</sup>  
Volume: 290,900.5 nm<sup>3</sup>

2.



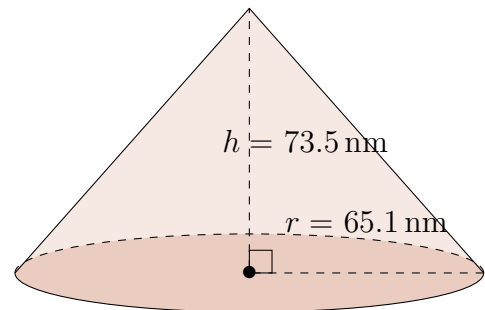
Surface Area: 55,680.77 mm<sup>2</sup>  
Volume: 823,355.38 mm<sup>3</sup>

3.



Surface Area: 22,870.70 yd<sup>2</sup>  
Volume: 222,661.27 yd<sup>3</sup>

4.



Surface Area: 33,394.6 nm<sup>2</sup>  
Volume: 326,195.5 nm<sup>3</sup>