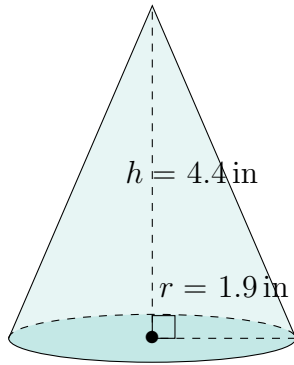


# Surface Area and Volume of Cones (H)

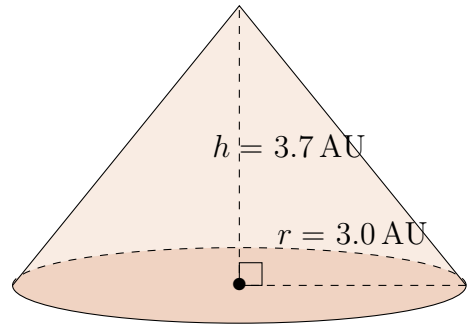
Calculate the surface area and volume for each cone.

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

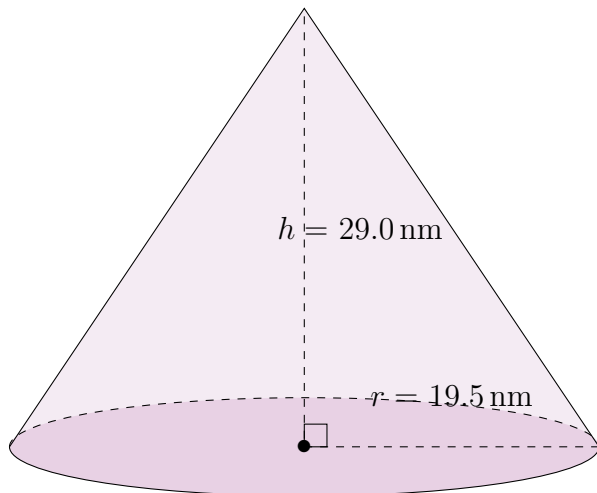
1.



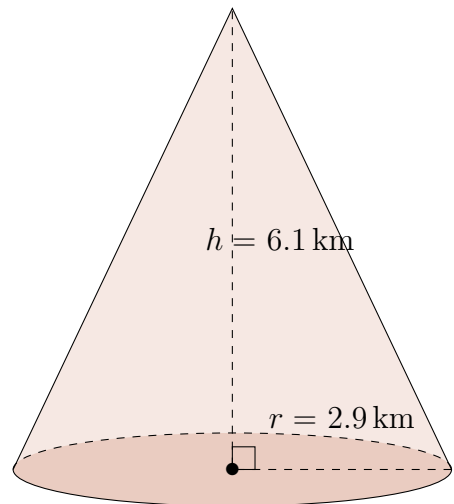
2.



3.



4.

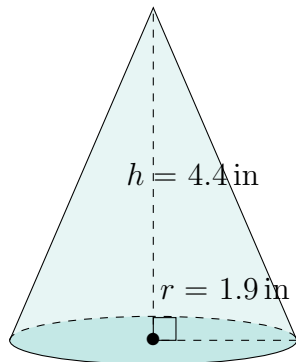


# Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

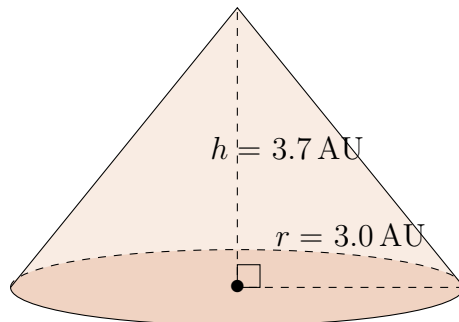
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



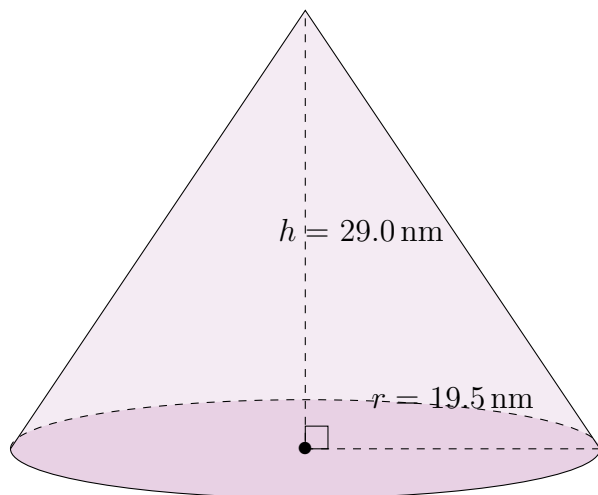
Surface Area:  $39.9 \text{ in}^2$   
Volume:  $16.6 \text{ in}^3$

2.



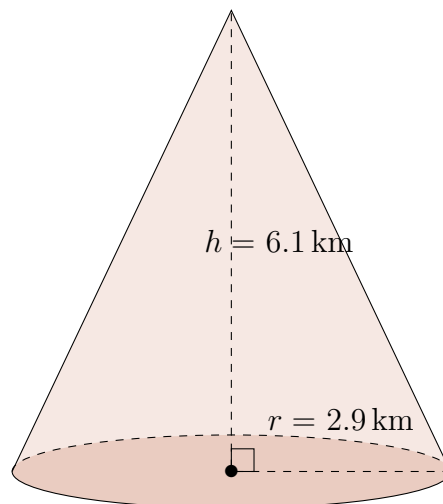
Surface Area:  $73.2 \text{ AU}^2$   
Volume:  $34.9 \text{ AU}^3$

3.



Surface Area:  $3335.4 \text{ nm}^2$   
Volume:  $11,547.7 \text{ nm}^3$

4.



Surface Area:  $88.0 \text{ km}^2$   
Volume:  $53.7 \text{ km}^3$