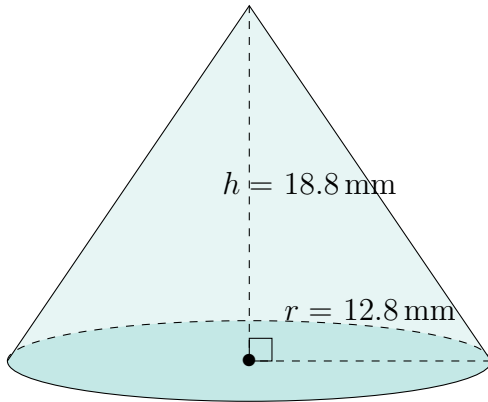


# Surface Area and Volume of Cones (D)

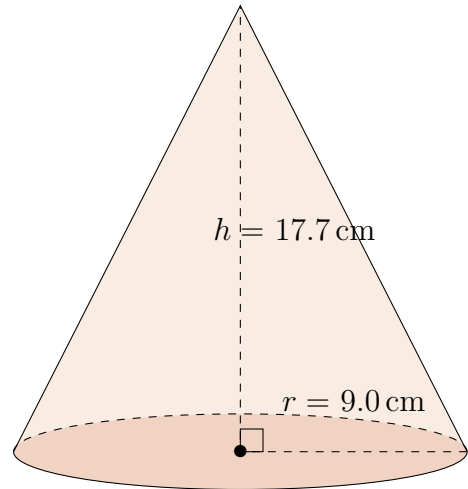
Calculate the surface area and volume for each cone.

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

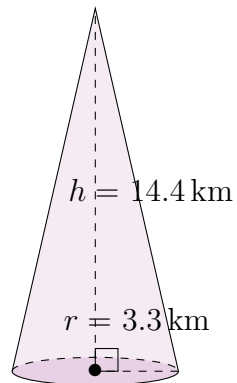
1.



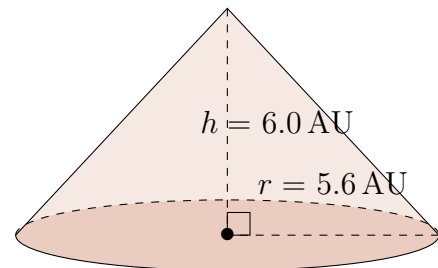
2.



3.



4.

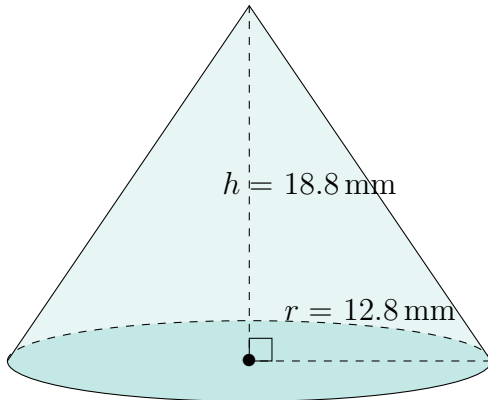


# Surface Area and Volume of Cones (D) Answers

Calculate the surface area and volume for each cone.

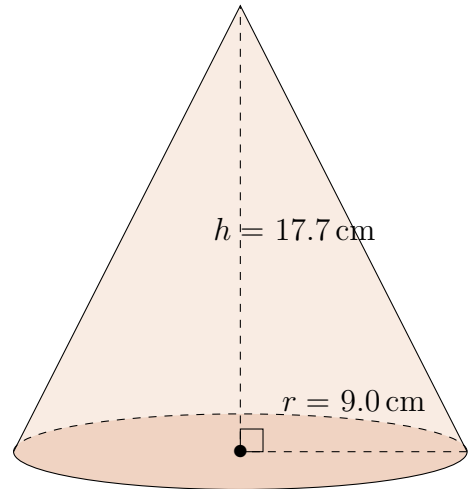
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



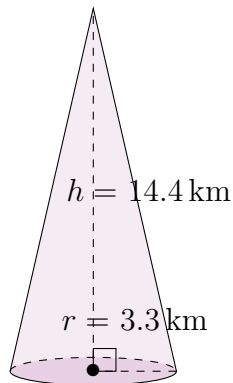
Surface Area:  $1429.3 \text{ mm}^2$   
Volume:  $3225.6 \text{ mm}^3$

2.



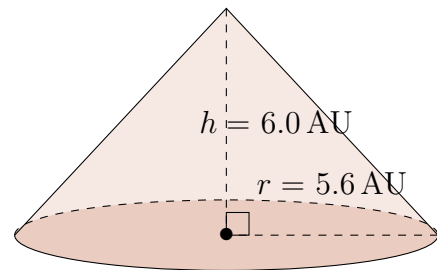
Surface Area:  $815.9 \text{ cm}^2$   
Volume:  $1501.4 \text{ cm}^3$

3.



Surface Area:  $187.4 \text{ km}^2$   
Volume:  $164.2 \text{ km}^3$

4.



Surface Area:  $242.9 \text{ AU}^2$   
Volume:  $197.0 \text{ AU}^3$