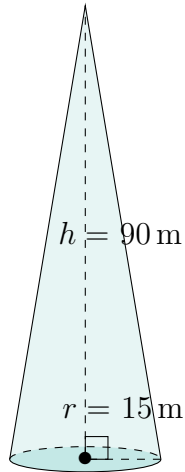


# Surface Area and Volume of Cones (H)

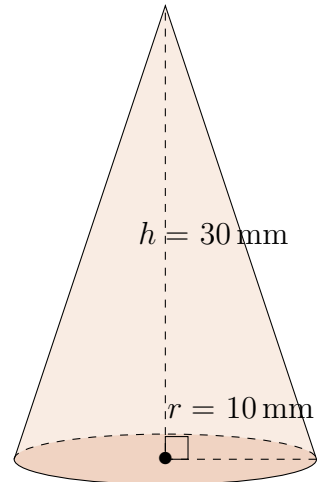
Calculate the surface area and volume for each cone.

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

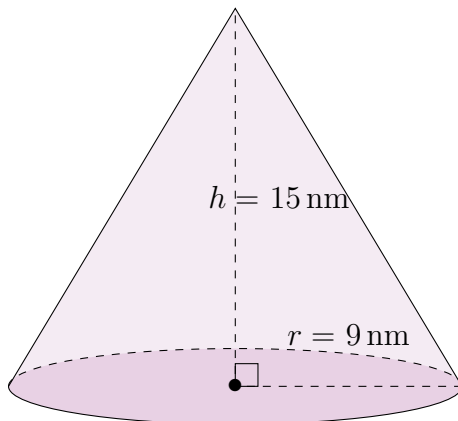
1.



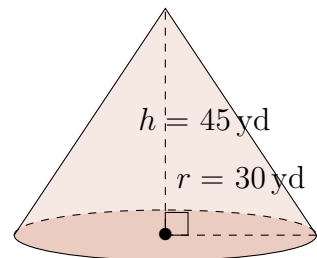
2.



3.



4.

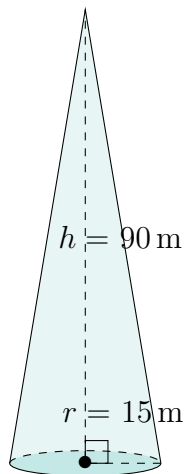


# Surface Area and Volume of Cones (H) Answers

Calculate the surface area and volume for each cone.

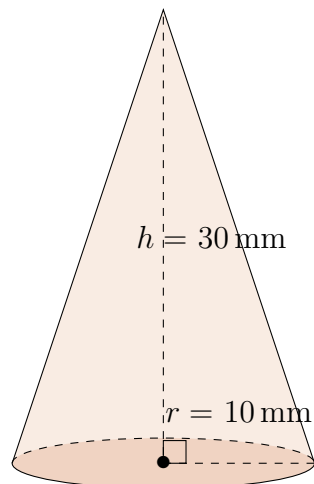
$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$

1.



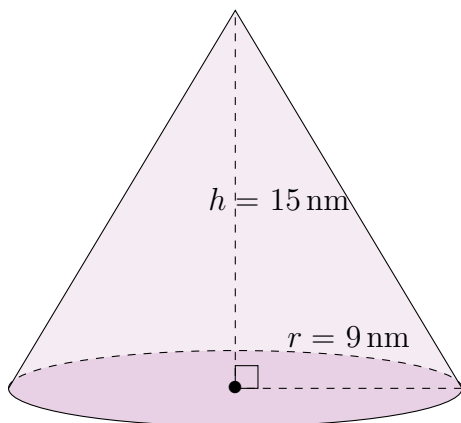
Surface Area:  $5007 \text{ m}^2$   
Volume:  $21,206 \text{ m}^3$

2.



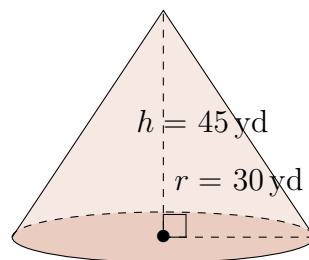
Surface Area:  $1308 \text{ mm}^2$   
Volume:  $3142 \text{ mm}^3$

3.



Surface Area:  $749 \text{ nm}^2$   
Volume:  $1272 \text{ nm}^3$

4.



Surface Area:  $7925 \text{ yd}^2$   
Volume:  $42,412 \text{ yd}^3$