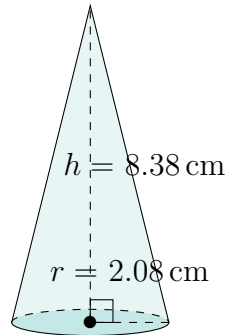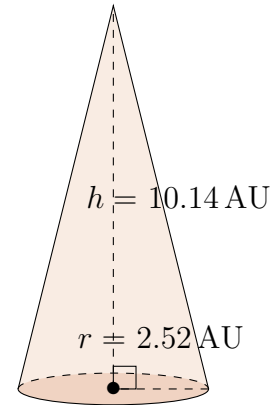# Surface Area and Volume of Cones (D)

Calculate the surface area and volume for each cone.

$$\text{Surface Area} = \pi r(r + \sqrt{h^2 + r^2}) \quad \text{Volume} = \pi r^2 \frac{h}{3}$$
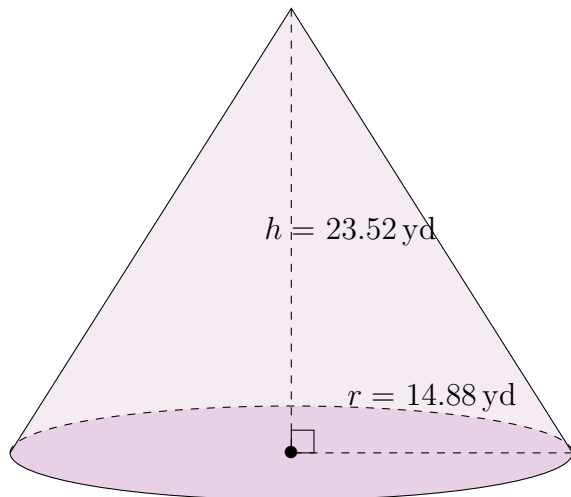
1.

$h = 8.38 \,\text{cm}$

$r = 2.08 \,\text{cm}$

2.

$h = 10.14 \,\text{AU}$

$r = 2.52 \,\text{AU}$

3.

$h = 23.52 \,\text{yd}$

$r = 14.88 \,\text{yd}$

4.

$h = 30.25 \,\text{AU}$

$r = 16.00 \,\text{AU}$