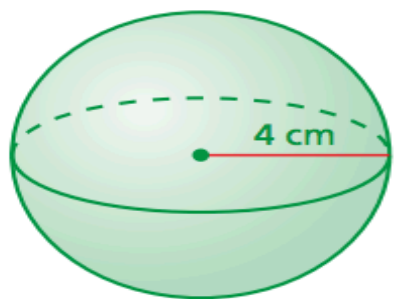


Find the volume of the sphere. Round your answer to the nearest tenth.



$$\begin{aligned}
 V &= \frac{4}{3} \pi r^3 \\
 &= \frac{4}{3} \pi (4)^3 \\
 &= \frac{256}{3} \pi \\
 &\approx 268.1
 \end{aligned}$$

Write formula for volume.

Substitute 4 for r .

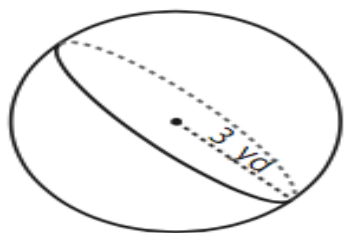
Simplify.

Use a calculator.

••• The volume is about 268.1 cubic centimeters.

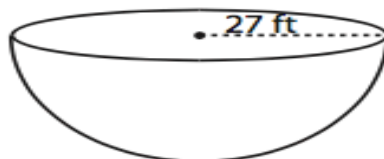
Find the exact volume of each shape.

1)



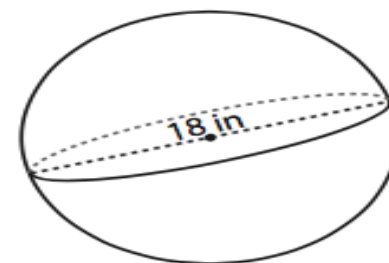
Volume = _____

2)



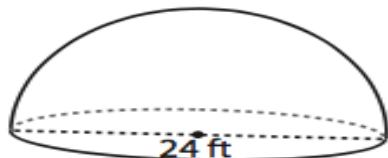
Volume = _____

3)



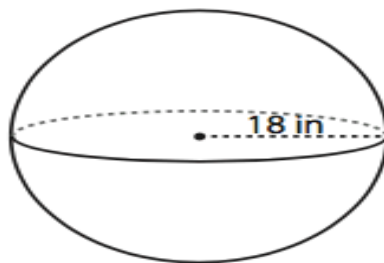
Volume = _____

4)



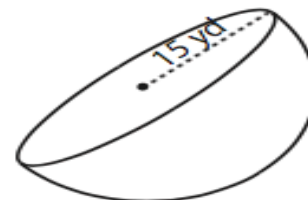
Volume = _____

5)



Volume = _____

6)



Volume = _____

Find the volume of the cone. Round your answer to the nearest tenth.

The diameter is 4 meters. So, the radius is 2 meters.

$$V = \frac{1}{3}Bh$$

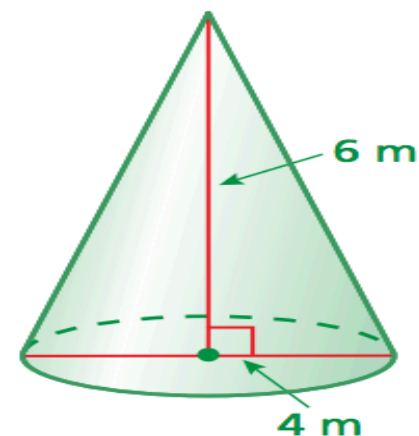
Write formula.

$$= \frac{1}{3}\pi(2)^2(6)$$

Substitute.

$$= 8\pi \approx 25.1$$

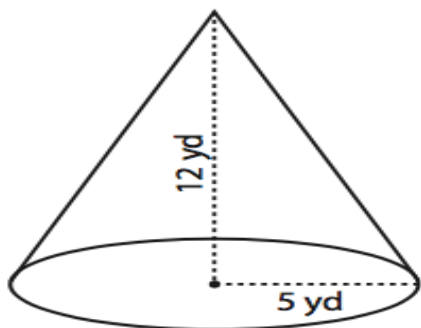
Simplify.



∴ The volume is about 25.1 cubic meters.

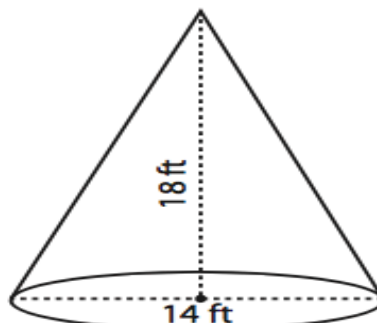
Find the exact volume of each cone.

1)



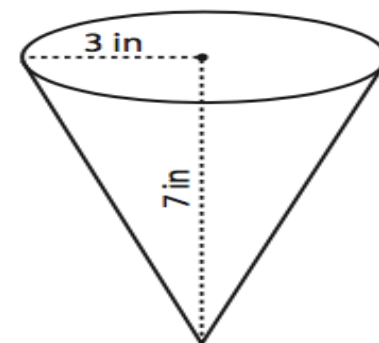
Volume = _____

2)



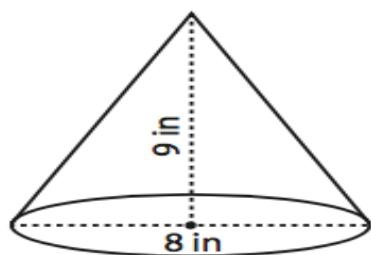
Volume = _____

3)



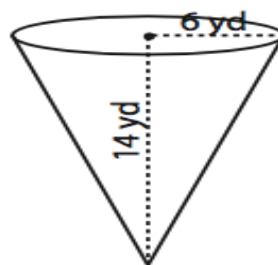
Volume = _____

4)



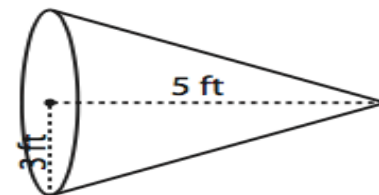
Volume = _____

5)



Volume = _____

6)

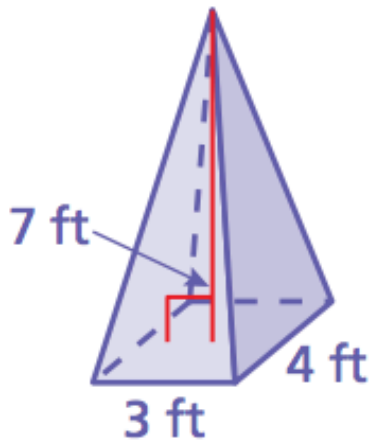


Volume = _____

$$V = \frac{1}{3} Bh$$

Area of base

Height of pyramid



$$V = \frac{1}{3} Bh$$

$$= \frac{1}{3} (3)(4)(7)$$

$$= 28$$

∴ The volume is 28 cubic feet.

Find the volume of each rectangular pyramid. Round the answer to two decimal places.

1)

Volume = _____

2)

Volume = _____

3)

Volume = _____

4)

Volume = _____

5)

Volume = _____

6)

Volume = _____

Find the volume of the cylinder. Round your answer to the nearest tenth.

$$V = \pi r^2 h$$

$$= \pi(3)^2(6)$$

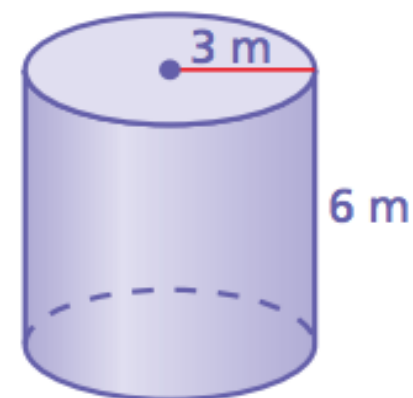
$$= 54\pi \approx 169.6$$

Write formula for volume.

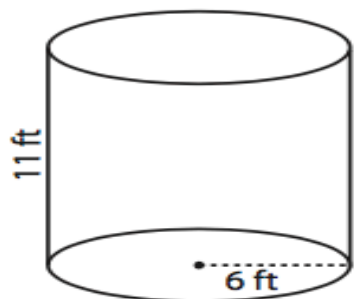
Substitute.

Simplify.

❖ The volume is about 169.6 cubic meters.

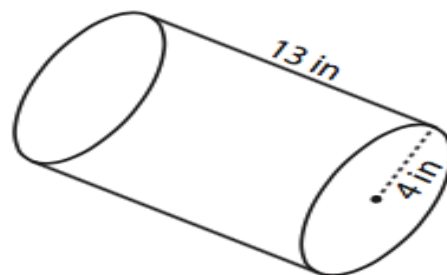


1)



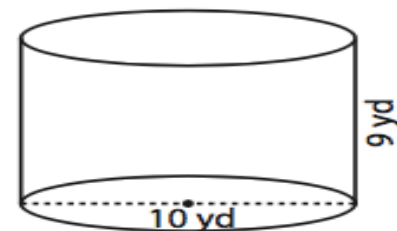
Volume = _____

2)



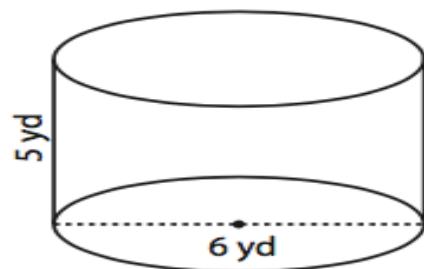
Volume = _____

3)



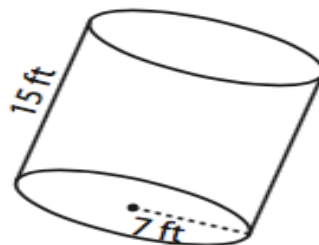
Volume = _____

4)



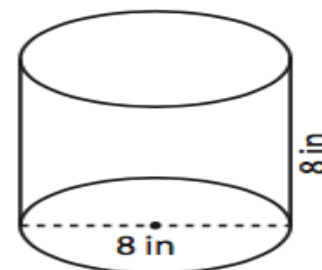
Volume = _____

5)



Volume = _____

6)



Volume = _____