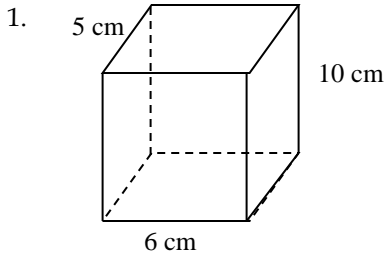


Find the indicated for each of the following figures.

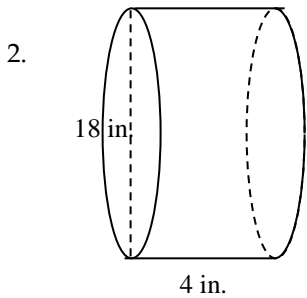


Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____

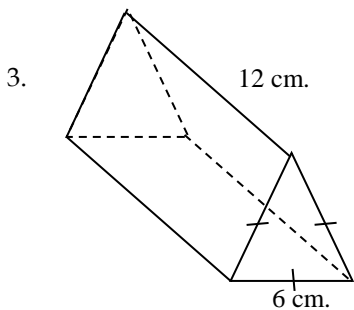


Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____



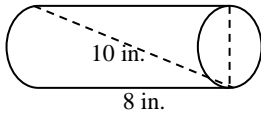
Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____

4.



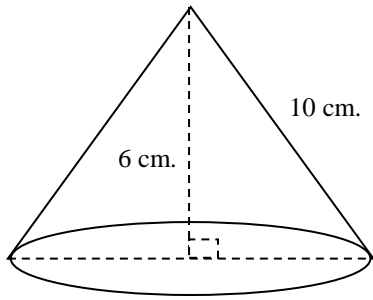
Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____

5.



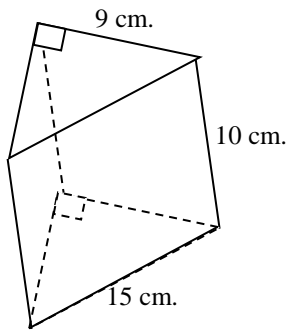
Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____

6.



Lateral Area = _____

Total Area = _____

Volume = _____

Parallel Cross Section: _____

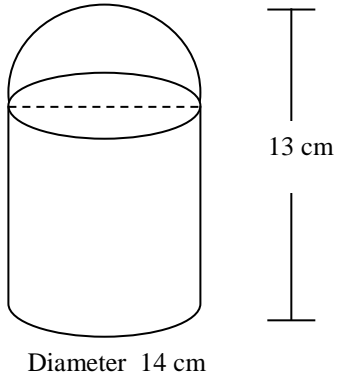
7. A right cylindrical tank is 8 ft in diameter and 20 ft tall. How many gallons of paint are needed to paint the tank if one gallon covers 200 sq ft?
 (note: you are painting the top and the bottom)

7. _____

8. If a sphere has a surface area of $36\pi\text{cm}^2$, find the volume of the sphere.

Volume = _____

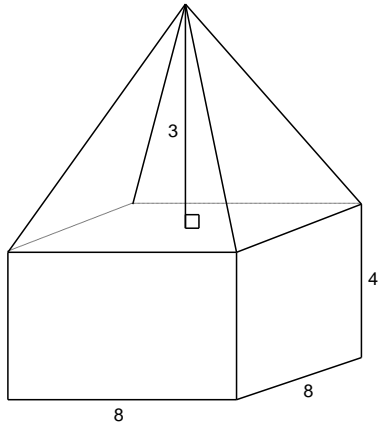
9.



Surface Area = _____

Volume = _____

10.



Surface Area = _____

Volume = _____

11. The volume of a regular square pyramid is 1805cm^3 . Its height is 15 cm. Find the base edge of the pyramid.

Base edge = _____

12. The surface area of a right circular cone is 728π cm² and the diameter is 26 cm. Find the slant height of the cone.

Slant height = _____

13. Lisa needs to store 8 boxes while she is moving. Each box is a cube with edge length 3 feet. A storage facility charges \$0.75 for every cubic foot of storage per month. Find the amount of money Lisa will pay to store her boxes for one month.

13. _____

14. Find the total surface area and volume of a regular hexagonal prism with a base edge of 10 and a height of 15.

Surface Area = _____

Volume = _____

15. What would happen to the volume of a cone if the height were doubled?

16. What would happen to the volume of a prism if the length, width and height were tripled?

17. A right cylindrical water tank 18 ft in diameter contains water to a depth of 8 ft. What volume of water must be added to raise the water level to 12 ft?

17. _____