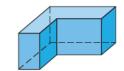
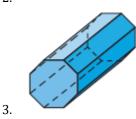
Geometry Chapter 12 Review

Find the number of faces, vertices, and edges of the polyhedron. Check your answer using Euler's Theorem.







Use Euler's Theorem to find the value of n.

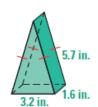
4. Faces: 12 Vertices: 10 Edges: *n*

5. Faces: *n*Vertices: 4
Edges: 6

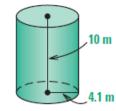
Find the surface area of the solid. The pyramids are regular and the prisms, cones, and cylinders are right. Round your answer to two decimal places, if necessary.

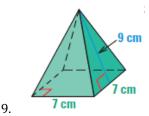


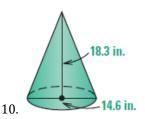
6

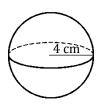


7.







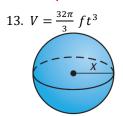


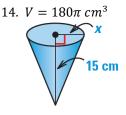
Solve for x given the volume V of the right solid. Round your answers to the <u>nearest</u> unit.

12. $V = 324 \text{ in.}^3$

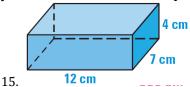
11.



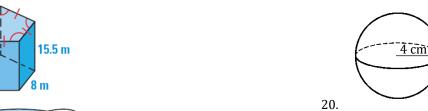




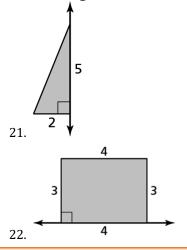
Find the volume of the solid. The pyramids are regular and the prisms, cones, and cylinders are right. Round your answer to two decimal places, if necessary.

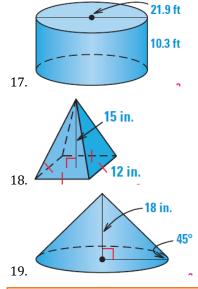


Mana			
Name:			



Sketch the solid produced by rotating the figure around the given axis.





Answers

16.

- 1. 9, 9, 16
- 2. 8, 12, 18
- 3. 10, 16, 24
- 4. 20
- 5. 4
- 6. 184 ft²
- 7. 40.87 in.²
- 8. 363.23 m²
- 9. 175 cm²
- 10. 619.26 in.²
- 11. 201.06 cm²
- 12. 12 in.
- 13. 2 ft
- 14. 6 cm
- 15. 336 cm³
- 16. 1706.71 m³
- 17. 3879.85 ft³
- 18. 720 in.³
- 19. 6107.26 in.³
- $20.\ \ 268.08\ cm^{3}$
- $21. \ \ Cone\ with\ radius\ 2\ and\ height\ 5$



