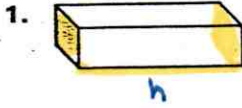
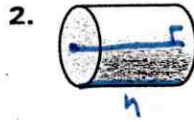


**LESSON**  
**12.1 Practice**  
For use with pages 792–801

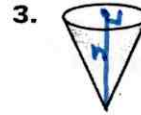
Determine whether the solid is a polyhedron. If it is, name the polyhedron.  
Explain your reasoning.



Rectangular  
Prism



Cylinder



Cone

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

4. Faces:  $n$   
Vertices: 4  
Edges: 6

5. Faces: 10  
Vertices:  $n$   
Edges: 24

6. Faces: 14  
Vertices: 24  
Edges:  $n$

Sketch the polyhedron.

7. Triangular pyramid

8. Pentagonal pyramid

9. Hexagonal prism

LESSON  
12.1

**Practice** *continued*

For use with pages 792–801

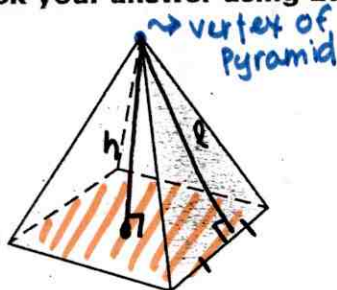
*Shade the base*

Find the number of faces, vertices, and edges of the polyhedron.

Name the solid

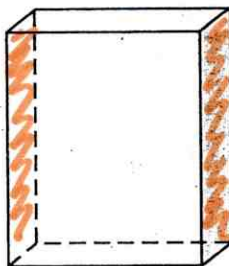
Check your answer using Euler's Theorem.

10.



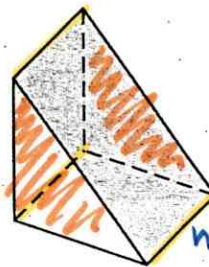
Rectangular Pyramid

11.



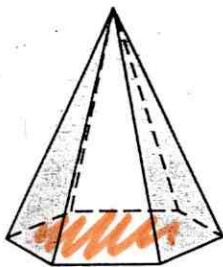
Rectangular Prism

12.



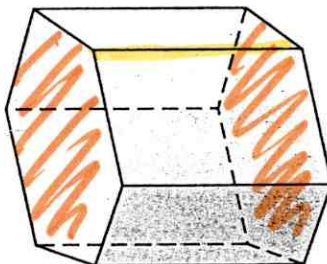
Triangular Prism

13.



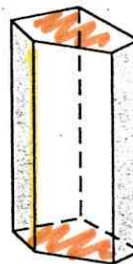
Hexagonal Pyramid

14.



Hexagonal Prism

15.

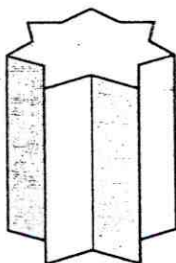


Pentagonal Prism

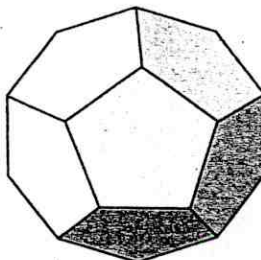
16. **Visual Thinking** An architect is designing a contemporary office building in the shape of a pyramid. The building will have eight sides. What is the shape of the base of the building?

Determine whether the solid is *convex* or *concave*.

17.



18.



19.

