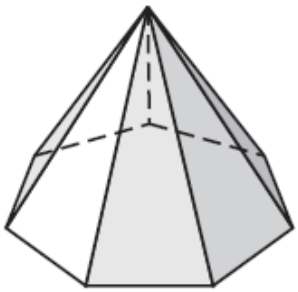
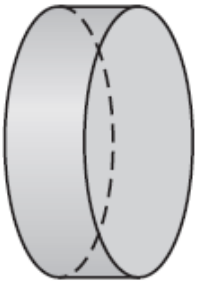
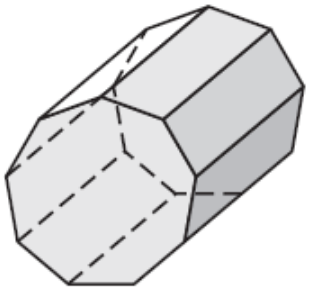
Name _____ **Hour** _____

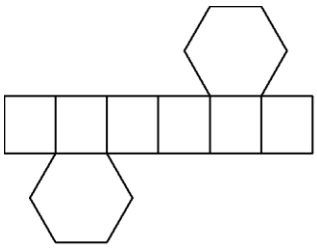
Determine whether the solid is a polyhedron. If it is, name the polyhedron. If it is not, explain why.

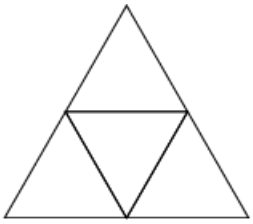
1. 

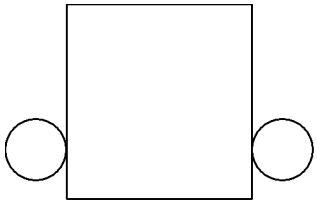
2. 

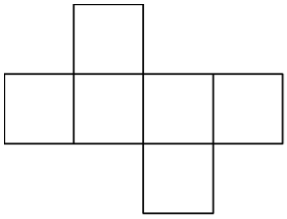
3. 

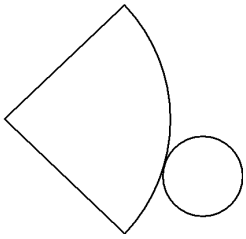
Name the solid that can be folded from the net.

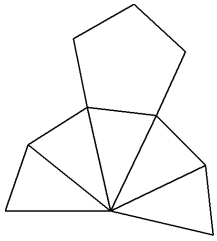
4. 

5. 

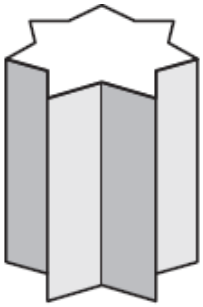
6. 

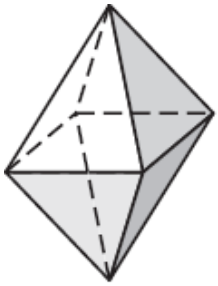
7. 

8. 

9. 

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

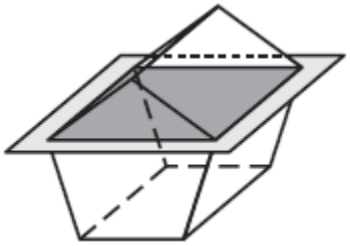
10. 

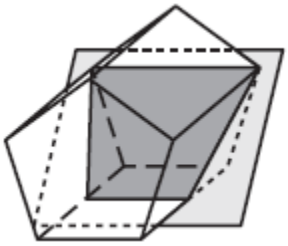
11. 

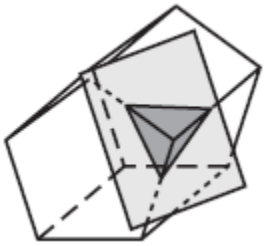
12. 

Solids

Describe the cross section formed by the intersection of the plane and the solid.

13. 

14. 

15. 

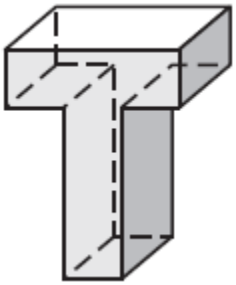
Use Euler's Theorem to find the value of *n*.

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

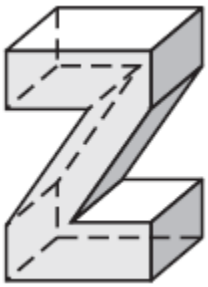
17. Faces: 10
    Vertices: *n*
    Edges: 24

18. Faces: 14
    Vertices: 24
    Edges: *n*

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

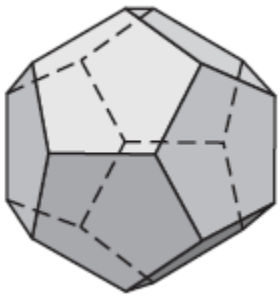
19. 

20. 

21. 

Calculate the number of vertices of the solid using the given information.

22. 12 faces
    all pentagons



23. 14 faces
    8 triangles and 6 octagons

24. 26 faces
    18 squares and 8 triangles