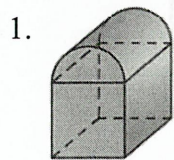
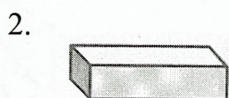


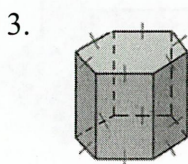
Determine whether the solid is a polyhedron. If it is, name the polyhedron. Explain your reasoning.



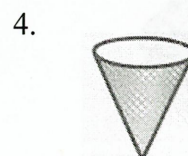
No; why?



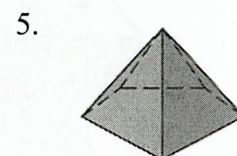
Yes;  
Rectangular  
Prism



Yes;  
Hexagonal  
Prism

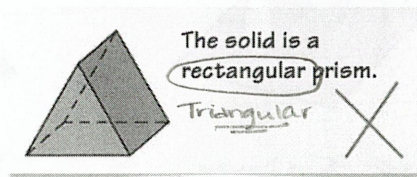


No; why?



Yes;  
Pentagonal  
Pyramid

6. Describe and correct the error in identifying the solid.



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

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

$n = 4$

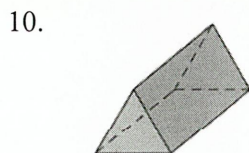
8. Faces: 10  
Vertices:  $n$   
Edges: 24

$n = 16$

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

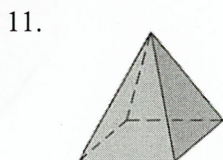
$n = 34$

Name the polyhedron then find the number of faces, vertices and edges of the polyhedron. Check your answers using Euler's Theorem. ← Show it!



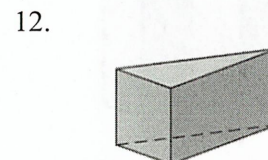
Triangular Prism

$F = 5, V = 6, E = 9$



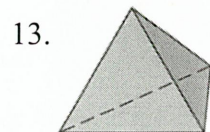
Rectangular (Square?) Prism

$F = 5, V = 5, E = 8$



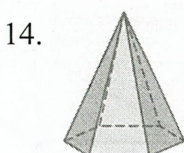
Triangular Prism

$F = 5, V = 6, E = 9$



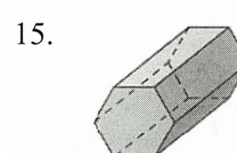
Triangular Pyramid

$F = 4, V = 4, E = 6$



Hexagonal Pyramid

$F = 7, V = 7, E = 12$

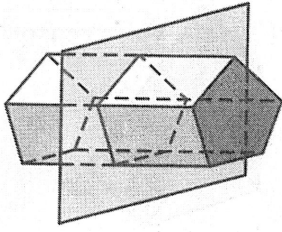


Hexagonal Prism

$F = 8, V = 12, E = 18$

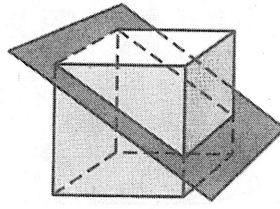
Describe the cross section formed by the intersection of the plane and the solid.

16.



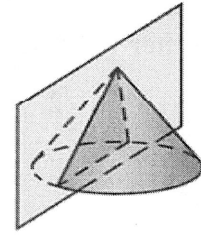
Pentagon

17.



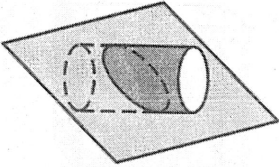
Rectangle

18.



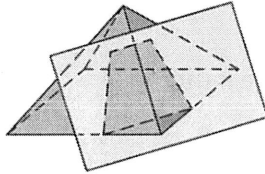
Triangle

19.



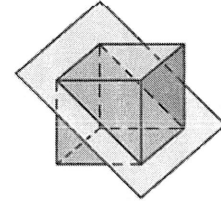
Oval or Eclipse

20.



Trapezoid

21.

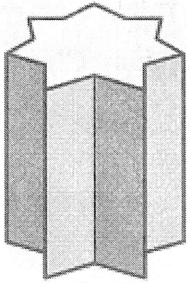


Rectangle

22. Describe and correct the error in determining that a tetrahedron has 4 faces, 4 edges and 6 vertices.

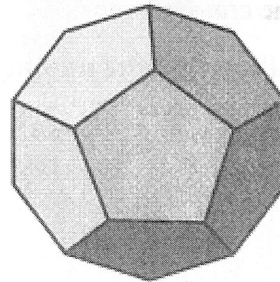
Determine whether the solid is convex or concave.

23.



Concave

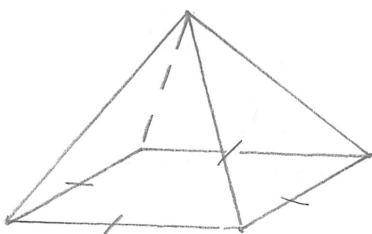
24.



convex

Sketch the polyhedron.

25. Square pyramid



26. Square prism

