MATHS

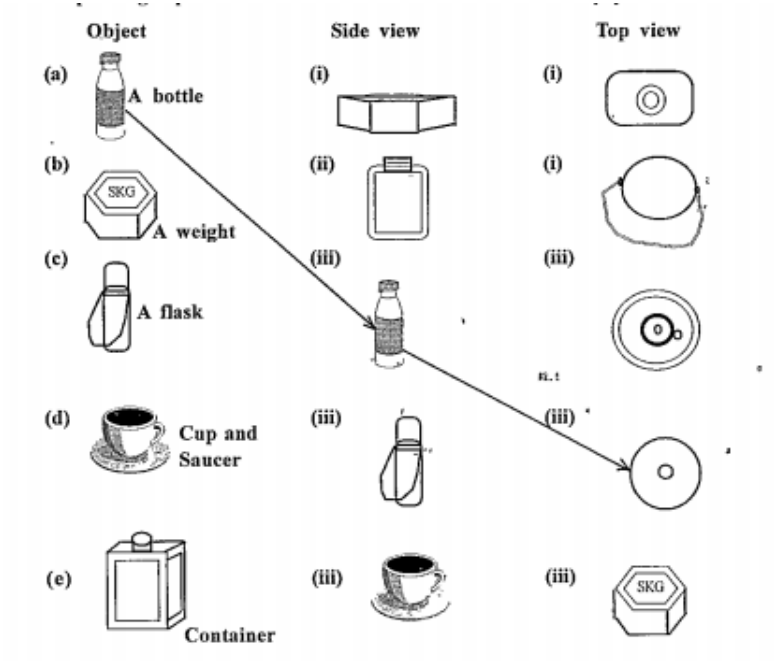
BOOKS - ASHOK PUBLICATION ASSAM

Visualising Solid Shapes

Example

1. For each of the given solid, the two views are given. Match for each solid the corresponding top and front views. The first one is done for

joy.



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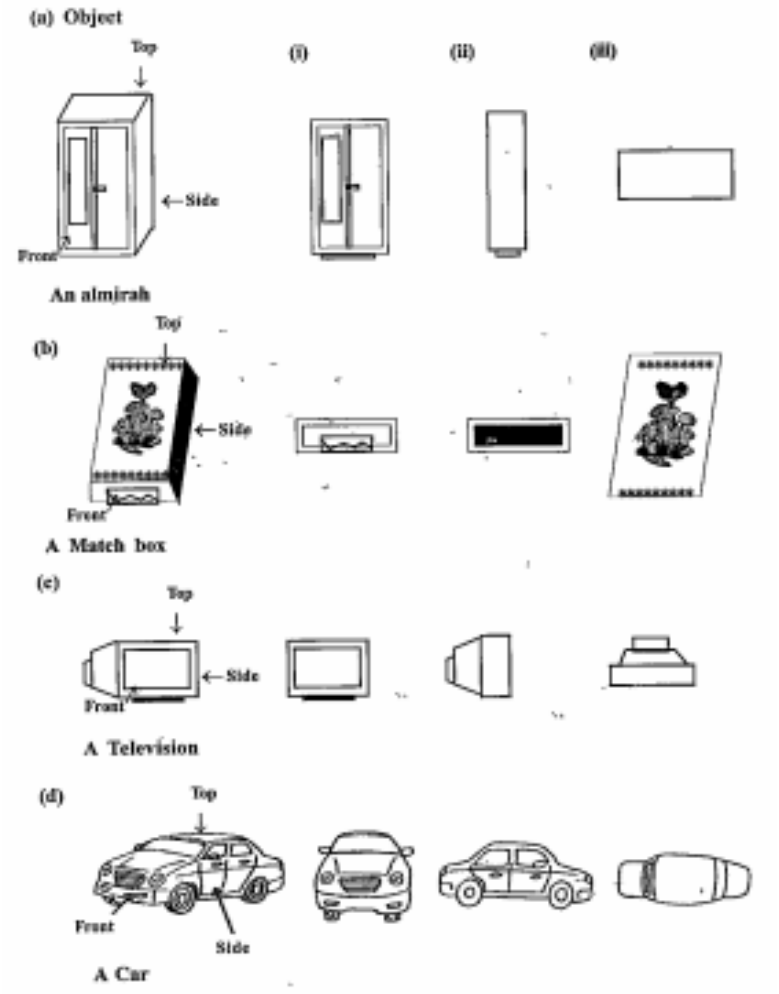
2. For each of the given solid, the two views are given. Match for each solid the

corresponding top and front views.



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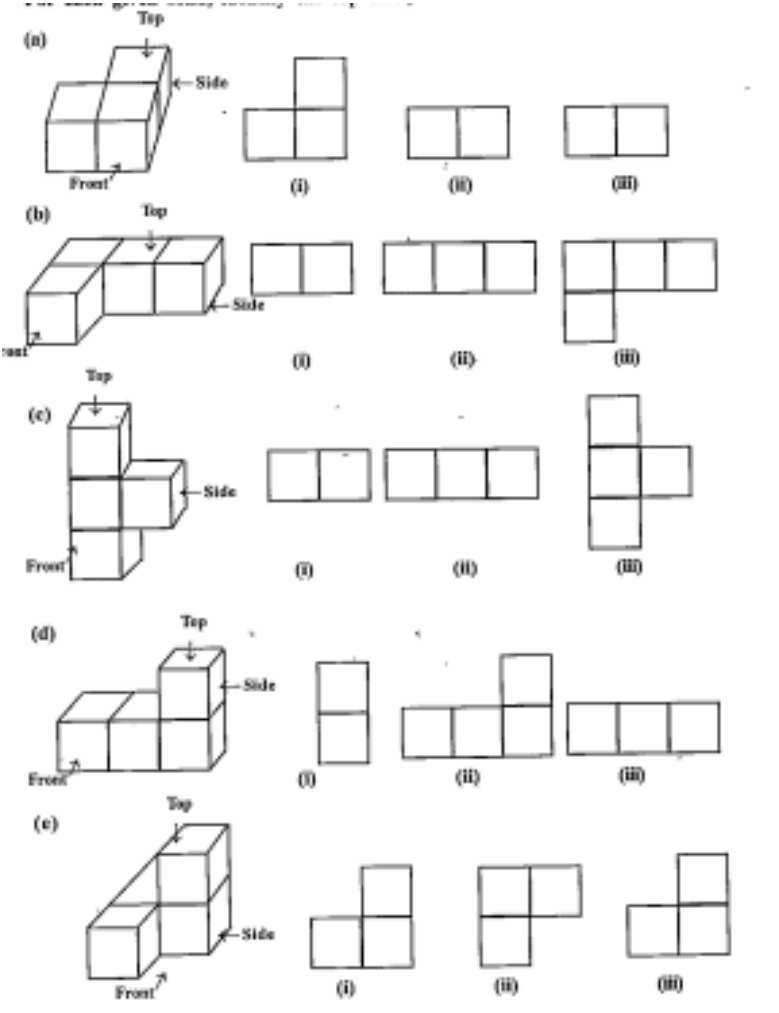
3. For each given solid, identify the top view, front view and side view.



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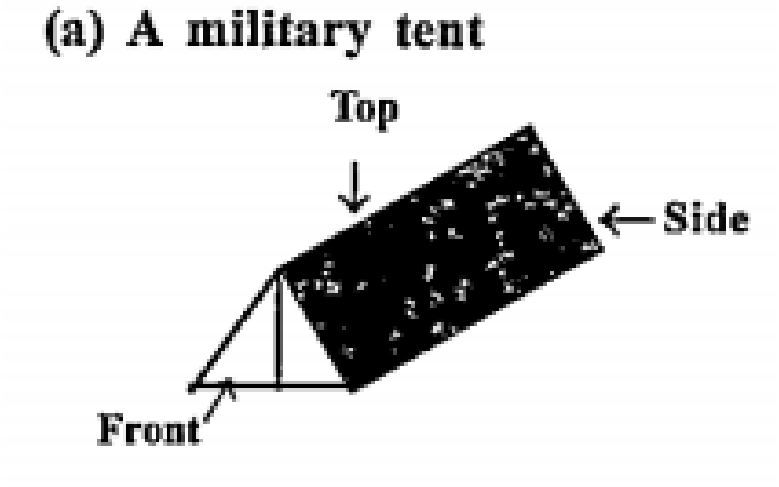
4. Draw the front view, side view and top view of the given objects

A military tent



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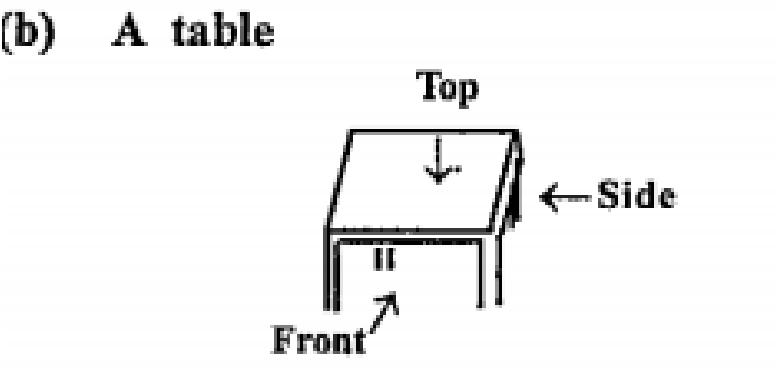
5. Draw the front view, side view and top view of the given objects

A table



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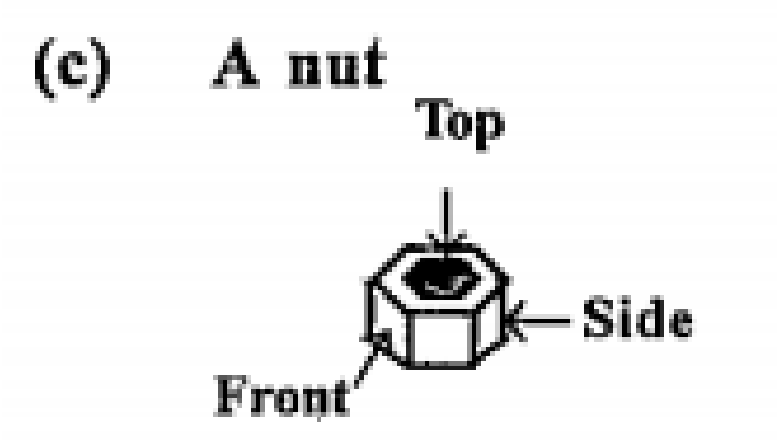
6. Draw the front view, side view and top view of the given objects.

A nut



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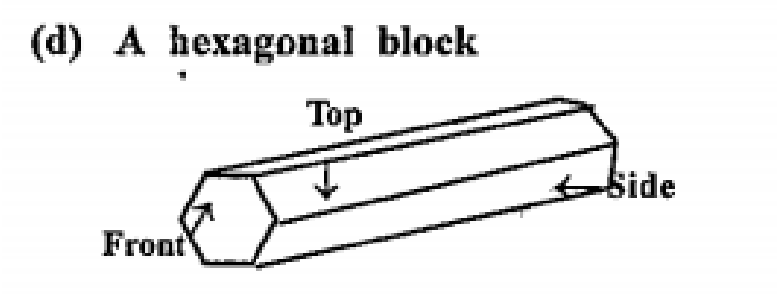
7. Draw the front view, side view and top view of the given objects.

A hexagonal block



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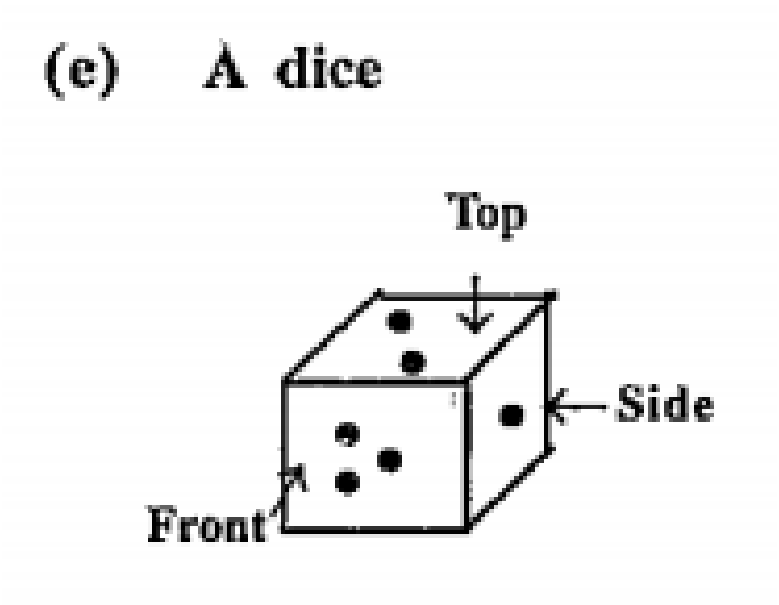
8. Draw the front view, side view and to view of the given objects.

A dice



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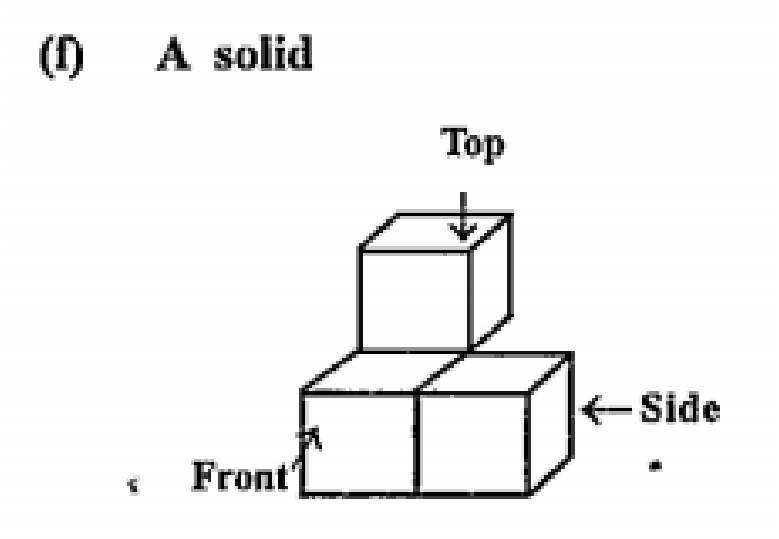
9. Draw the front view, side view and to view of the given objects.

A solid



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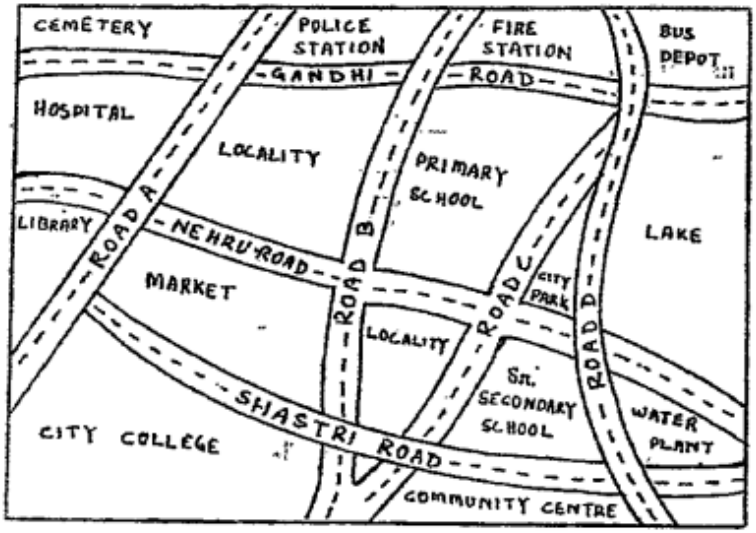
10. Look at the given map of a city.



Answer the following

Mark a green 'X' at the intersection of Road 'C' and Nehru Road, Green 'Y' at the intersection of Gandhi Road and Road A.

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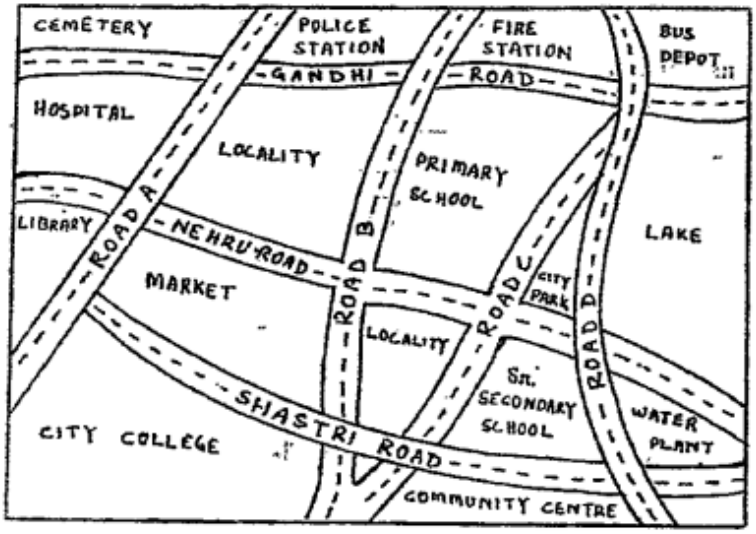
11. Look at the given map of a city.



Answer the following

In red, draw a short street route from Library to the bus depot.

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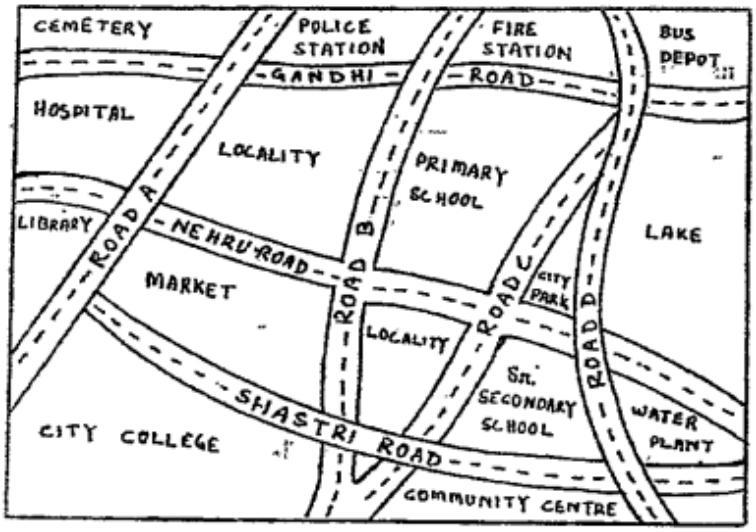
12. Look at the given map of a city.



Answer the following

Which is further east, the city park or the market?

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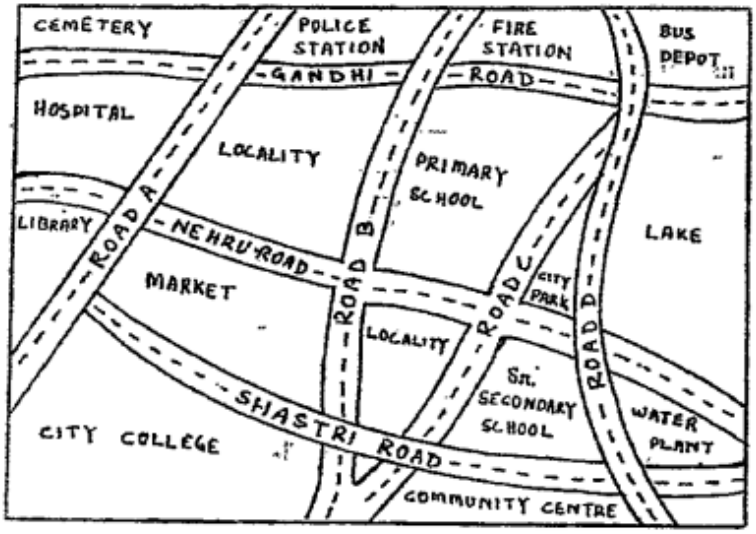
13. Look at the given map of a city.



Answer the following

Which is further south, the primary school or the Sr. Secondary School?

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14. Can a polyhedron have for its faces

3 triangles

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15. Can a polyhedron have for its faces

4 triangles

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16. Can a polyhedron have for its faces

a square and four triangles.

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17. Is it possible to have a polyhedron with any given number of faces?

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18. Which are prisms among the following?

(i)

A nail

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19. Which are prisms among the following?

Unsharpened pencil

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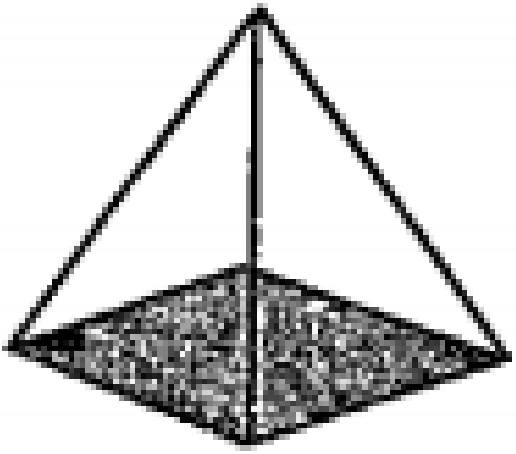
20. Which are prisms among the following?



A table weight

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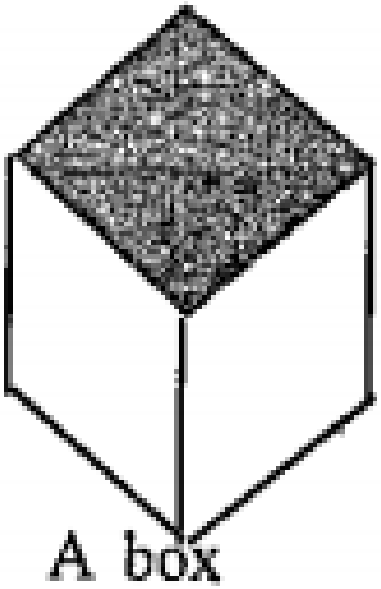
21. Which are prisms among the following?



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22. How are prisms and cylinders alike?

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23. How are pyramids and cones alike?

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24. Is a square prism same as a cube? Explain.

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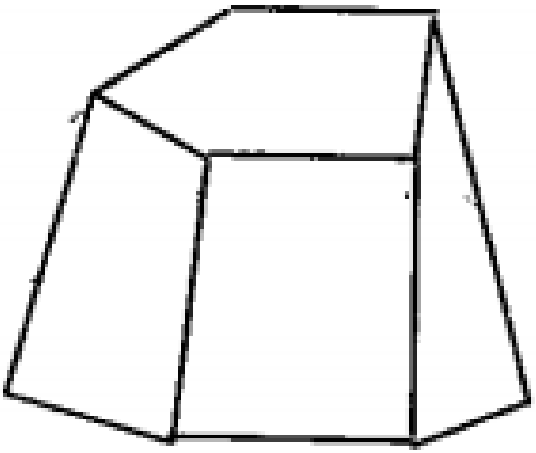
25. Verify Euler's formula for these solids.



(i)

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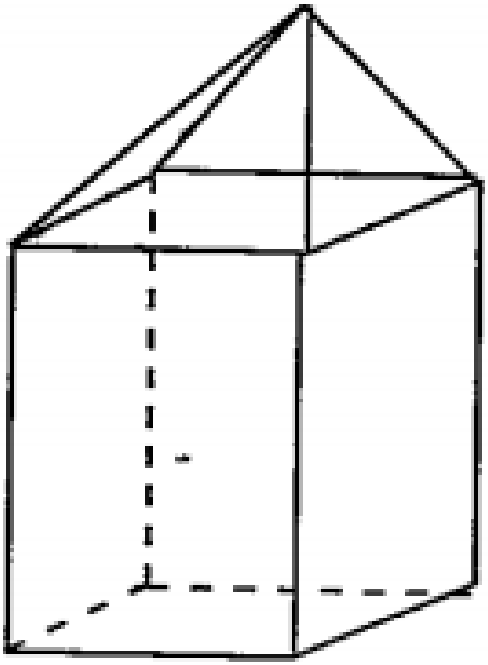
26. Verify Euler's formula for these solids.



(ii)

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27. Using Euler's formula find the unknown.

Faces	?	5	20
Vertices	6	?	12
Edges	12	9	?

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28. Can a polyhedron have 10 faces, 20 edges and 15 vertices?

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