ANG SANGAM HIGH SCHOO

P.O.BOX 44, RAKIRAKI

WEEK 17 WORKSHEET

Subject: Basic Technology

BT10.5 GEOMETRICAL DRAWING Strand Sub Strand BT 10.5.4 PYRAMIDS AND CONES BT10.5.4.1 Develop skills in geometrical drawing of truncated pyramids a **Content Learning Outcome** cones.

LESSON NOTES

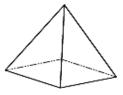
Triangular prism

Two triangular bases and three rectangular sides make a triangular prism. It falls in the category of a tetrahedron. It has 3 lateral faces and 2 triangular bases.

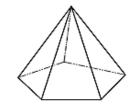
THE GEOMETRICAL SOLIDS

Pyramids

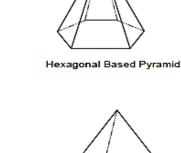
In technical drawing, objects are usually composed of an arrangement of geometrical solids, either in one peace or fastened together. An understanding of the geometrical solids is therefore essential before objects can be satisfactorily represented in technical drawing.



Square Based Pyramid



Pentagonal Based Pyramid

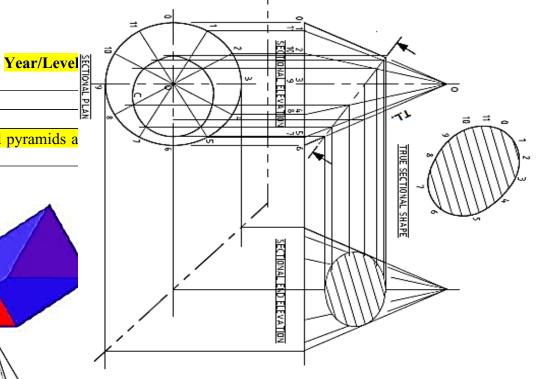


Triangular Based Pyramid

The axis of a solid is the imaginary line drawn from the centre of the top to the centre of the base the solid. When the axis is at right angle to the base, it is called a right solid, and when the axis inclined to the base or end of a solid it is called an oblique solid. When the edges of the base or end a solid are equal, it is called regular.

A cube is a solid contained by six equal squares. The axis is the imaginary line joining the centres of the opposite sides. A cube can thus have three axes.

A right regular prism is a solid whose sides consist of equal rectangles, ad two equal ends. It named by its ends. The axis is the line joining the centres of the ends. The axis is the line joining tl centres of the ends. Examples of right regular prisms are: square prism, equilateral triangular prism, right pentagonal prism, etc. (A rectangular prism is not a regular prism).



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GIVEN:

THE TLAN OF A TRUNCATED CORE DRAWN IN FIRST ANGLE ORTHOGRAPHIC PROJECTION: ORTHOGRAPHIC PROJECTION:

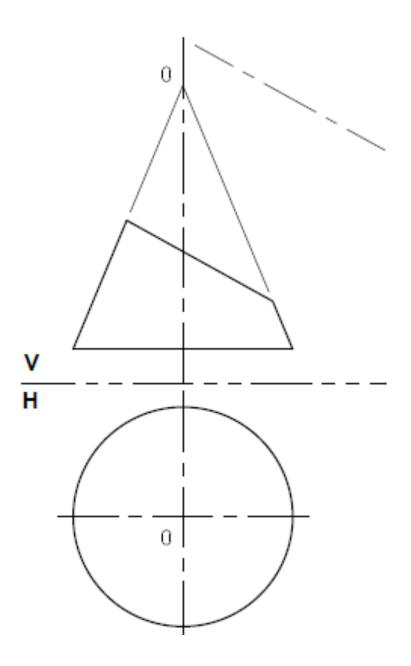
REQUIRED: A. COMPLETE THE SECTIONAL PLAN B. PROJECT THE TRUE SECTIONAL SHAPE C. DRAW THE FULL SURFACE DEVELORIST

D. LABEL ALL THE DRAWINGS. 앜

FOLD LINES

PLAN AND PROJECT THE SECTIONAL END ELEVATION NAL SHAPE AND DRAW THE DEVELOPMENT DPMENT METHOD

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THE END