Solid Mensuration

Mapua Institute of Technology

Prepared By: Albert A. Cinco Jr.

Chapter 9

Pyramids & Cones

Solid Mensuration

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I. Pyramid

A. Definition

B. Parts

a. Base
b. Lateral Face
c. Lateral Edge
d. Height/Altitude
e. Vertex

C. Types

a. Right (Regular)
b. Oblique

D. Surface Area

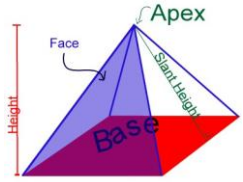
a. TSA=B+LSA
b. LSA=(1/2)Pl

E. Volume

a. General V=(1/3)Bh

F. Slant height & Lateral Edge

a. Lateral Edge
b. Slant Height



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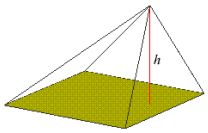
I. Pyramid

Definition: It is a polyhedron containing triangular lateral faces with a common vertex and a base which is a polygon.



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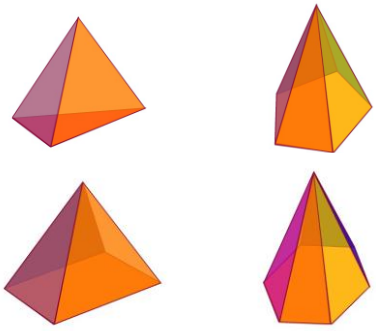
I. Pyramid



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Exercises:

1. Page 114 Number1 letter a
2. Page 114 Number4
3. Page 114 Number10

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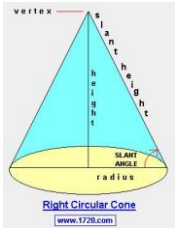
II. Cones

- **A. Definition**
- **B. Parts**
  - a. Base
  - b. Lateral Surface
  - c. Altitude/Height
- **C. Types**
  - a. Right
  - b. Oblique
- **D. Surface Area**
  - a. LSA=πrl
  - b. TSA= πr(r+l)
- **E. Volume**
  - a. V=(1/3) π r^2h



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Exercises:

1. Page 117 Number23
2. Page 118 Number33
3. Page 118 Number35

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