ANDREA PALLADIO

Palladio was a stone mason

Palladio Designed over 30 villas throughout the Veneto only 19 were built 1535 - 1570

Drawings in the Four Books were written after the buildings were constructed

The first book contained the rules

Second Book contained drawings of the villas
Reference Marks for section cuts

Scale Notation

Varying Line weights
Wall or Column notations

Dimension Note

Materials Notification
LINES AND VECTORS

CAD SYSTEMS

Lines

Coordinate Systems

Transformations

Operations
POINTERs, LINES AND MANIPULATION

Geometric Entities

Lines are based on the Coordinates not the scale
POINTS, LINES AND MANIPULATION

(k = ?')
COORDINATE SYSTEMS

Grid System

Lines Can Snap to Modules

Lines Can Snap to Orthogonal Axes

Lines Can Snap to Objects
COORDINATE SYSTEMS

Points on Lines

Nearest  Endpoint  Midpoint
COORDINATE SYSTEMS

Points on Lines

- Equal Divisions
- Intersections
- Perpendicular
COORDINATE SYSTEMS

Points on Lines

- Center Point
- Quadrant
- Tangent (to last point)
LINE TYPES

Straight

Arcs

Splines
LINE SEGMENTS

Three Segment

Nine Segments
LINE OPERATIONS

Break Operation

Extend Operation

Trim Operation
GEOMETRIC CONSTRUCTS

Offsets

Parallel

Polar

X & Y

Arrays
TRANSFORMATIONS

- **Move**
  - Grab Point

- **Rotate**
  - Rotation Point

- **Scale**
  - Grab Point
  - Base Point
  - Z

- **Mirror**
  - Grab Point
  - Base Point
PRE-DEFINED OBJECTS

Doors

Bathroom

Furniture

Chairs & Tables

Office Furniture