### Board-Pencil Drawing Tools & Instruments

- T- Square
- 45° Set Square
- 30° x 60° Set Square
- Drawing Paper
- Case Instruments
- Pencils (B, HB, 2H)
- Circle Templates
- French Curves
- Eraser
- Protractor
- Schocth Tape



Board drafting equipment.

#### **BOARD DRAFTING**

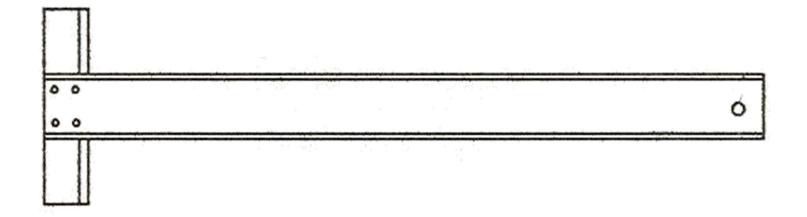
Over the years, the designer's chair and drafting table have evolved into a **drafting station** that provides a comfortable, integrated work area. Yet much of the equipment and supplies employed years ago are still in use today, although vastly improved.

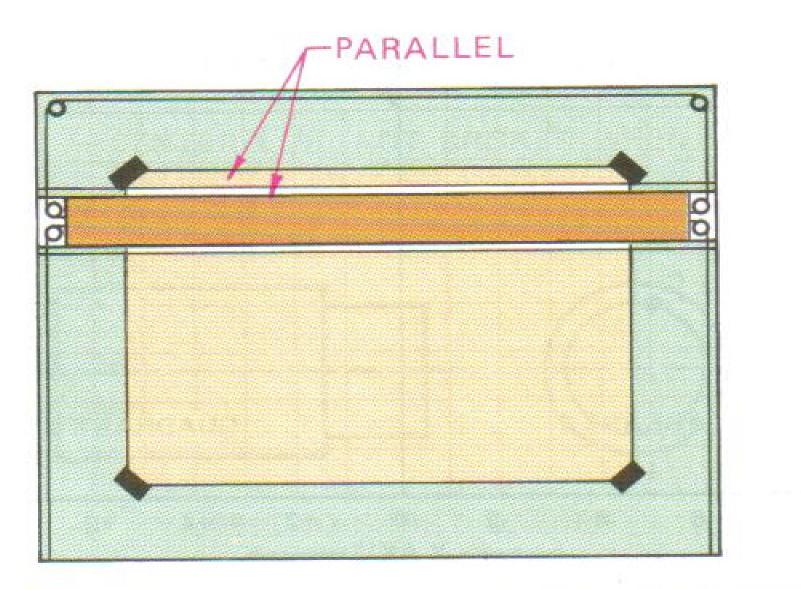


WOOD DRAFTING TABLE

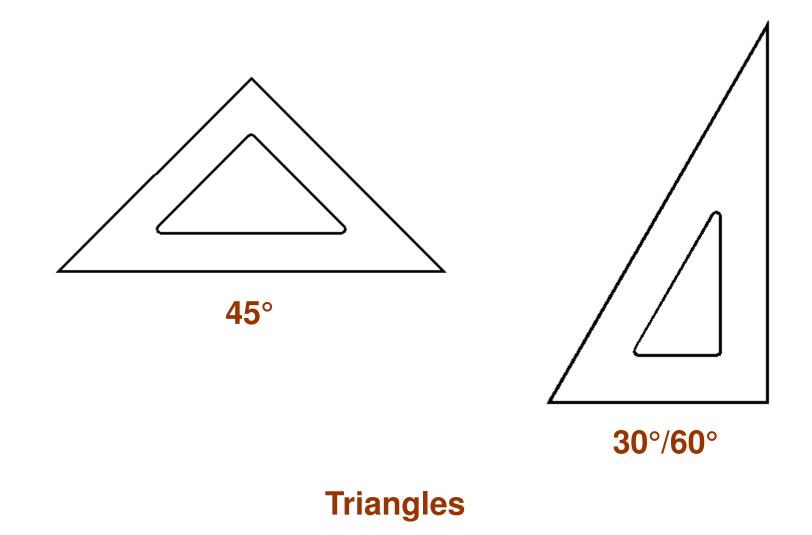


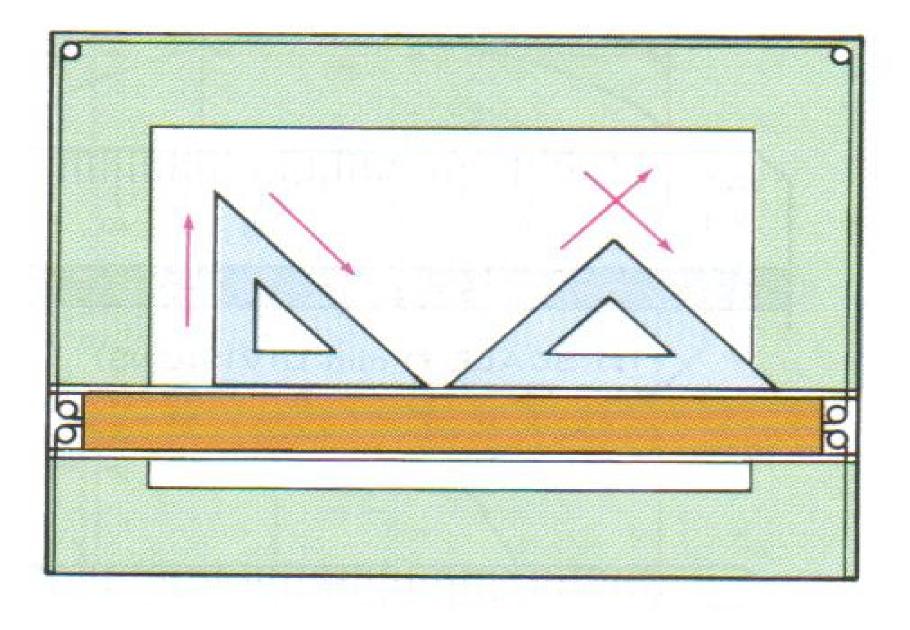
# T Square

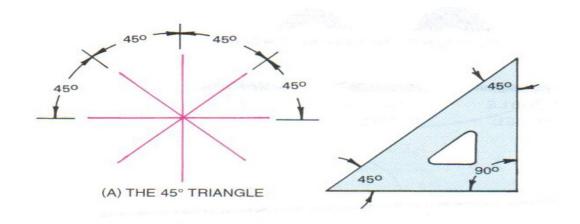


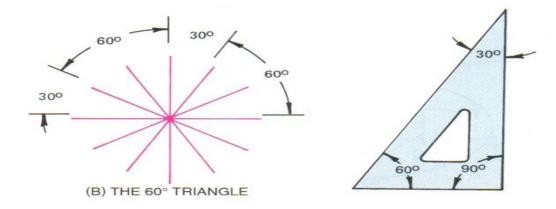


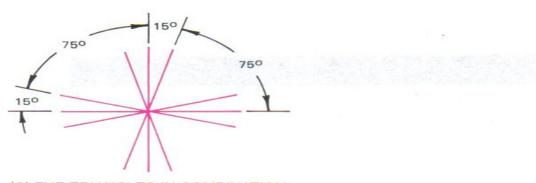
Positioning and fastening the paper on the board.



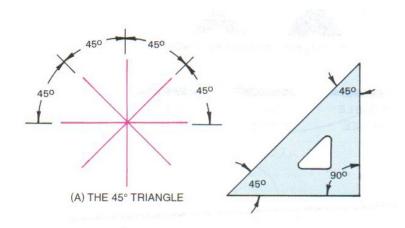


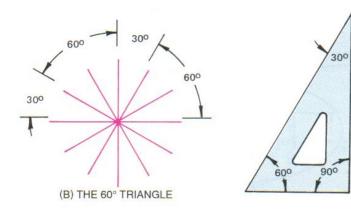


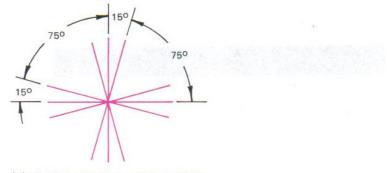




(C) THE TRIANGLES IN COMBINATION

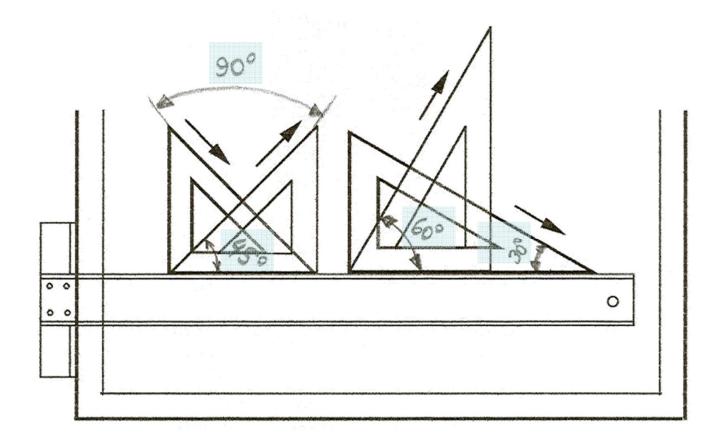


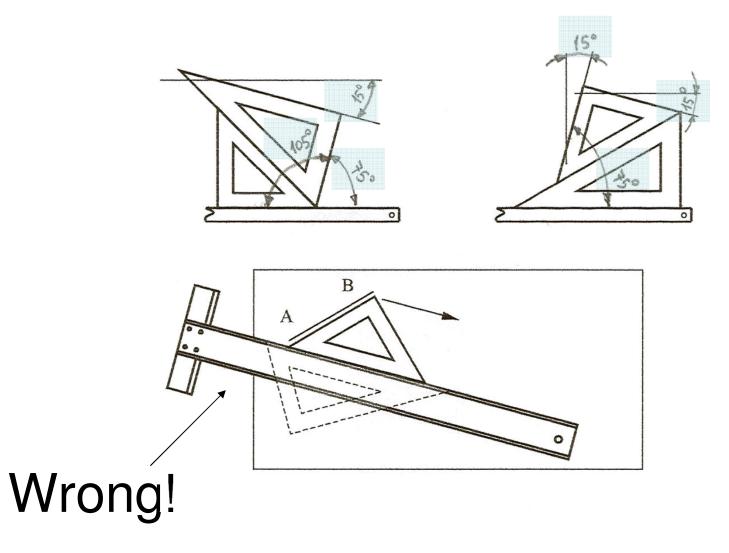




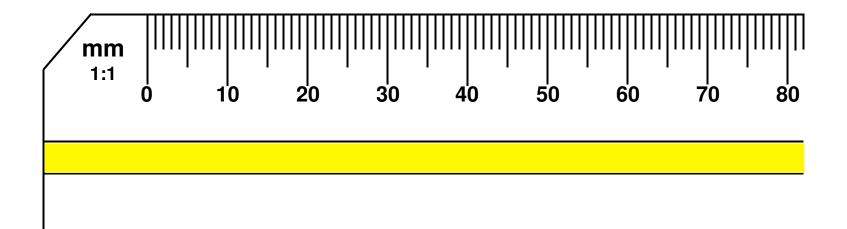
(C) THE TRIANGLES IN COMBINATION

## Set Squares



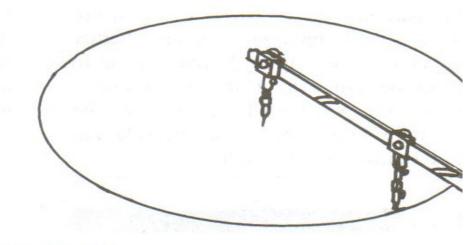


### **METRIC SCALE**

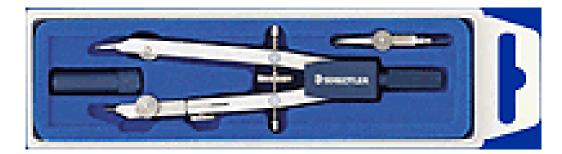


#### 1:1 SCALE (1mm DIVISIONS)



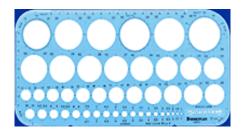


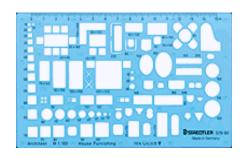
(A) BEAM COMPASS



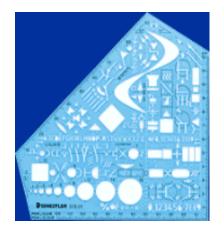
Bow

#### Compasses



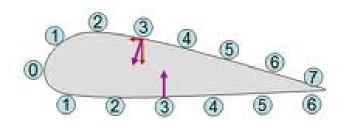


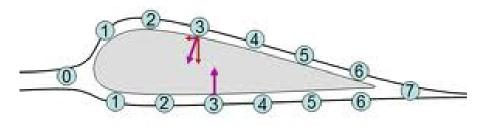
#### **Templates**

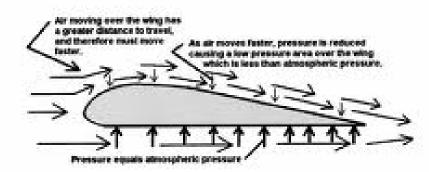




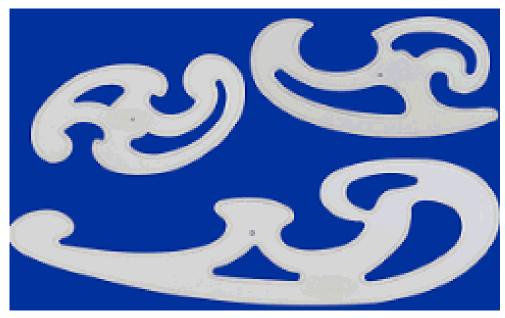










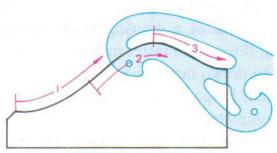


FIRST POSITION

Drawing a curved line.



SECOND POSITION



THIRD POSITION

#### **Irregular Curves**



#### **Wooden Pencil**



#### **Automatic Pencil**



#### **Mechanical Pencil**



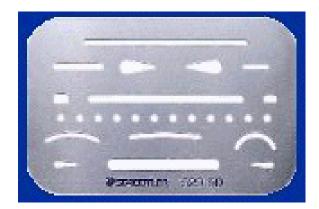






## **Pencil Grades**

9H, 8H 7H, 6H, 5H, 4H	Hard	Used in drawing very thin and light lines, 9 or 8 H pencils suitable to draw over marble or stone
3H, 2H, H, F, HB, B	Medium	Used in medium sized paper drawing 3H, 2H, H for construction lines, F, HB, B for visible out lines, hidden lines and lettering
2B, 3B, 4B, 5B, 6B, 7B	Soft	Used in large sized paper drawing, especially in civil engineering and architecturing



#### **Erasing Shield**



#### **Drafter's Brush**



#### **Technical Pens**

### **Tools & Instruments in CAD**

- Computer
- CAD Software
- - AutoCAD,
- - AutoCAD- Mechanical
- -AutoCAD- Electrical
- AutoCAD- Architect
- AutoCAD- Civil 3D
- Autodesk Inventor
- Autodesk Revit