



**School: Ba Sangam College**  
**Subject: Technical Drawing**

**Year/Level: 13**  
**Worksheet 21**

**Name: \_\_\_\_\_**  
**Year: \_\_\_\_\_**

Strand	Geometry
Sub Strand	Plane and Space Geometry
Content Learning Outcome	Define the terms and use the knowledge to find Dihedral angle

### Worked Example 1:

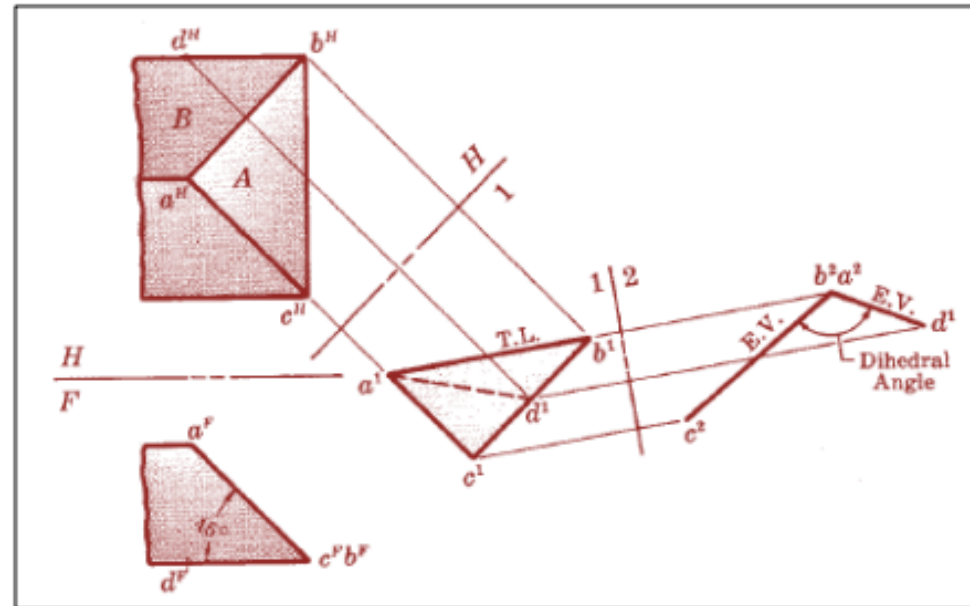
**Given:** The partial plan and front elevation of a hip roof.

**Problem:** Determine the dihedral angle between planes *A* and *B*.

**Solution:**

Locate a point on plane *B*, such as *D*.  
The two planes involved are *ABC* and *ABD*. Draw auxiliary elevation view 1 showing both planes and having the line of intersection *AB* shown in its true length: Draw inclined view 2 showing the line of intersection as a point and the planes as edges. The angle between the two edge views is the dihedral angle.

**Ans.** Dihedral Angle is  $119^{\circ} 30'$



### REVIEW QUESTIONS

1. Define the term dihedral angle. (1 mark)
2. Write down the steps in finding the dihedral angle between two intersecting planes. (5marks)
3. Define skew lines. (1 mark)

