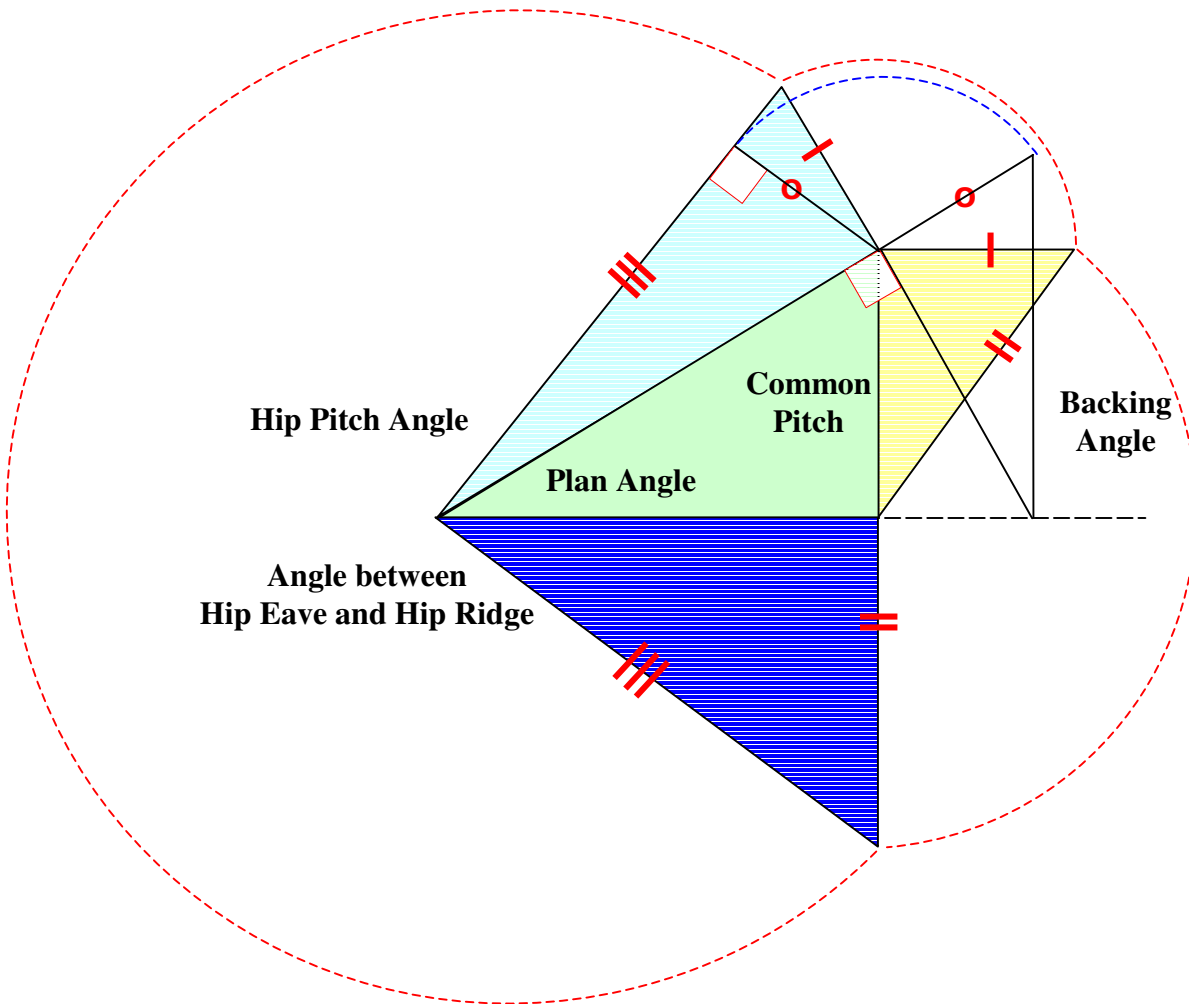


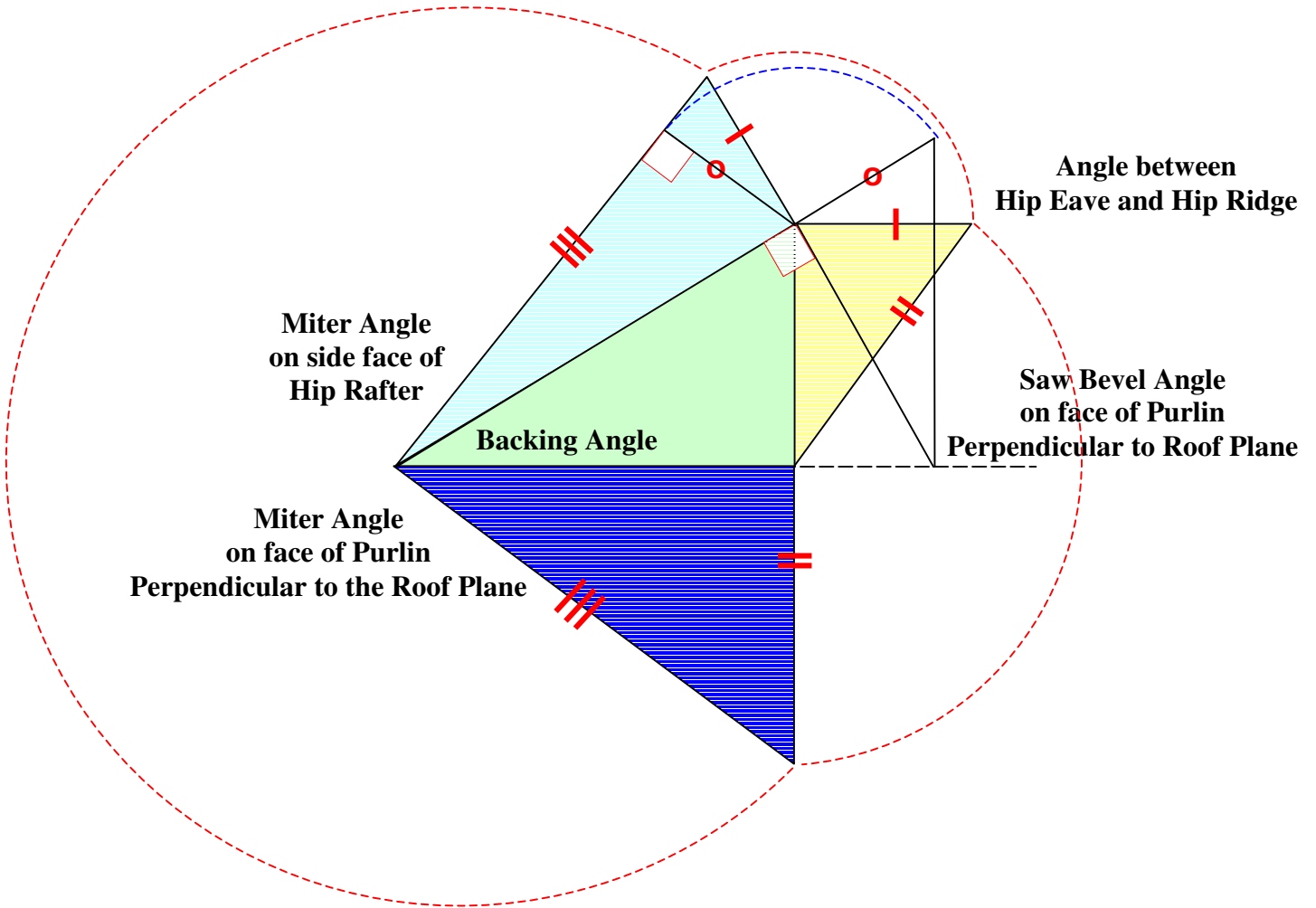
## DEVELOPMENT of ROOF ANGLES



## DEVELOPMENT of ROOF ANGLES

All triangles are right triangles. The **Plan** (green) and **Common Pitch** (yellow) triangles are drawn first. Next the **Hip Pitch** (pale blue) and **Angle between the Hip Eave and Hip Ridge** (blue) triangles are developed. The triangle for the **Backing Angle** (no color) is developed last. Lines marked equal are connected using a compass.

## DEVELOPMENT of PURLIN ANGLES



## DEVELOPMENT of PURLIN ANGLES

All triangles are right triangles. The **Backing Angle** (green) and **Angle between Hip Eave and Hip Ridge** (yellow) triangles are transferred from the previous development. Note the orientation of the angles relative to one another. Next the **Miter Angle on side face of Hip Rafter** (pale blue) and **Miter Angle on face of Purlin perpendicular to the Roof Plane** (blue) triangles are developed. The triangle for the **Saw Bevel Angle on face of Purlin Perpendicular to the Roof Plane** (no color) is developed last. Lines marked equal are connected using a compass.