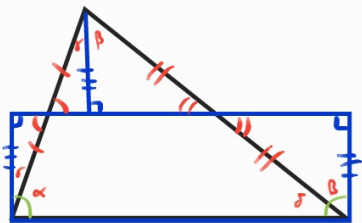


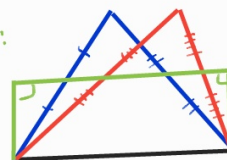
Associated Saccheri Quadrilateral



$$\Rightarrow \alpha + \gamma = \beta + \delta = \frac{180 - \Delta}{2}$$

- Δ : $180 - (\alpha + \beta + \gamma + \delta)$
- \square : $360 - (90 + 90 + \alpha + \beta + \gamma + \delta)$ ↖ Same defect!
- \therefore depends on Saccheri quadrilateral, not triangle
- \therefore 2 triangles with same defect and 1 congruent side are equivalent
- \therefore 2 triangles with same defect are equivalent

Pf:



Pf: construct 3rd triangle that shares 1 side with each

