1   Use Maths–Pro or Geo–Pro to draw any triangle.

2   Draw an altitude (dashed line CD in example) from
     one side through the opposite vertex.

3   Mark any point (P) on the altitude.

4   Draw a segment AE through P.

5   Draw a segment BF through P.

6   Draw segments DF and DE (dotted lines in example).

7   Measure angle CDF (α in example diagram above): _____°

8   Measure angle EDC: (β in example diagram above)_____°

9   How do the measured angles compare?

10   Investigate by repeating the above steps for several new triangles (or use the shapes below).