



Example 130 : As shown in Figure 3, draw the tangent CD of the circle from a point C on the extension line of the diameter AB , and the tangent point is D . If the intersection points of the bisectors of AD , BD and $\angle ACD$ are E and F , then $DE = DF$.

$$\frac{A-D}{E-C} = \frac{C-A}{C-E} \frac{A-D}{D-C},$$

$$\frac{B-D}{C-D} = \frac{C-D}{D-B}$$