



Example 1 87 : As shown in Figure 1, quadrilateral $ABCD$, $AA' \perp AB$ intersects CD at A' , $CC' \perp CD$ intersects AB at C' , prove: The necessary and sufficient condition for four points A , B , C and D to be cocircles is $A'C' // BD$.

$$\frac{A'-C'}{D-B} \frac{A-C}{A-B} \frac{A'-C'}{A-C} \frac{D-C}{A'-C} \frac{A-B}{A-C'} = 1$$