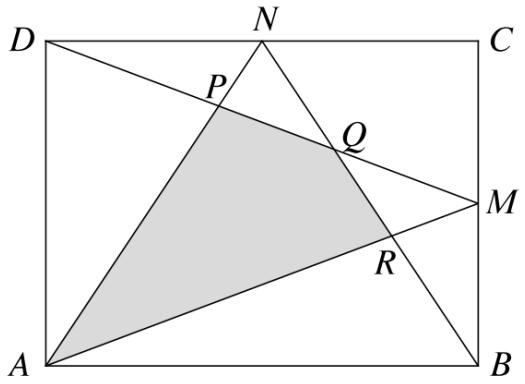

Example 29 : As shown in Figure 1, the parallelogram $ABCD$, M and N are the midpoints of BC and CD respectively, AM intersects BN at R, DM intersects BN at Q, AN intersects DM at P, to prove: A, R, Q, $R4$ The necessary and sufficient condition for point cocircle is $BA \perp BC$.

Proof: Suppose $\dfrac{\dfrac{A-\dfrac{A+C-B+C}{2}}{A-\dfrac{B+C}{2}}}{\dfrac{A+C-B-\dfrac{B+C}{2}}{\dfrac{A+C-B+C}{2}-B}}=t$, $\left(\dfrac{B-C}{B-A}\right)^2=s$, $1-4t-4s+ts=0$,