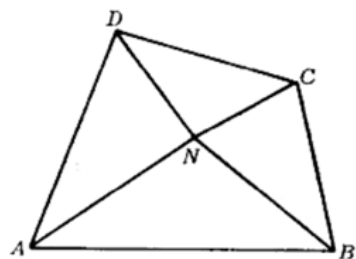


Example 126 : As shown in Figure 3, NA and NB are the bisectors of $\angle DAB$ and $\angle CBA$. Prove that $\angle ADC + \angle BCD = 2 \angle ANB$.



$$\frac{\left(\frac{N-B}{N-A}\right)^2}{\frac{D-C}{D-A} \frac{C-B}{C-D}} = \frac{\frac{A-D}{A-N} \frac{B-N}{B-A}}{\frac{A-N}{A-B} \frac{B-C}{B-N}}$$