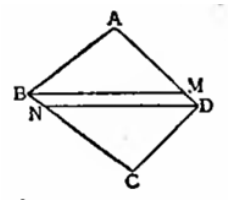


Example 77 : *As shown* in Figure 3, in the quadrilateral *ABCD*, if the diagonals ∠A and ∠C are equal , *then* the bisectors of the *other* pair of diagonals ∠B *and* ∠D are parallel to each other.

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

Explanation: The right part of the equation is a positive real number, so it can be judged $\frac{N-D}{B-M}$ as a real number.