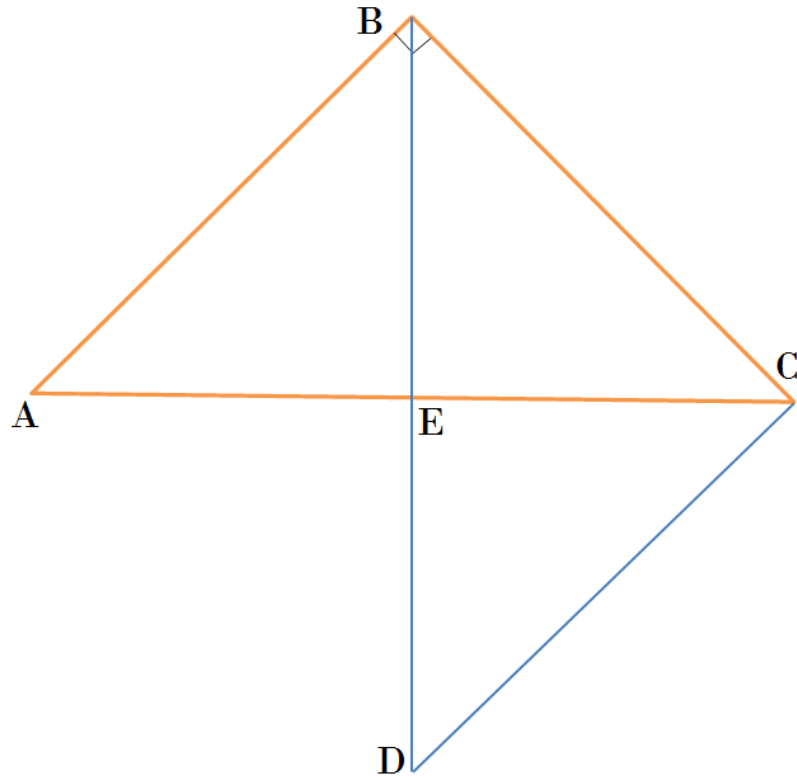


**Solution.**



We have  $\triangle ABC$ . We know that  $BE$  bisects  $\angle ABC$ . Then  $\angle EBC = 45^\circ$  (as a bisector) and  $\angle BEC = 90^\circ$  (as a height). So  $\angle BCE = 180^\circ - 45^\circ - 90^\circ = 45^\circ$ . We know that  $CE$  bisects  $\angle DCB$  and from this it follows that  $\angle ECD = 45^\circ$ . So we have a rectangular  $ABCD$ . It has two sides  $AB, CD$  which are parallel.

So  $BA \parallel CD$ .