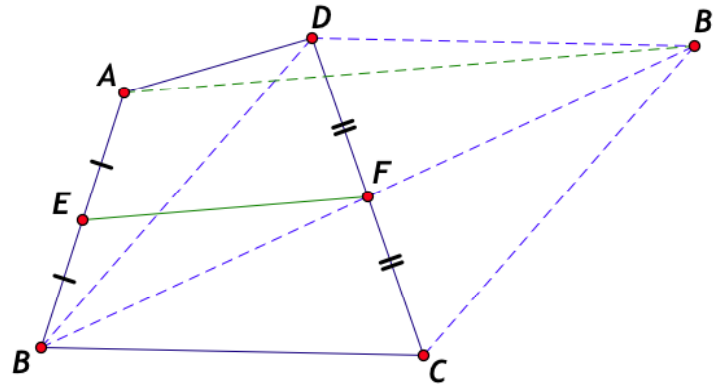


## An alternative proof of Quadrilateral Midpoint Theorem

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1. Complete parallelogram  $DBC B'$ .
2. Since its diagonals bisect each other,  $BFB'$  is a straight line.
3. From the midpoint theorem,  $EF$  is one half of  $AB'$ .
4. 
$$EF = \frac{1}{2} AB' \leq \frac{1}{2} AD + \frac{1}{2} DB' = \frac{1}{2} (AD + BC).$$

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