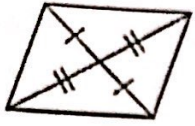


Day 2 – Proving and Justifying with Parallelograms – Practice

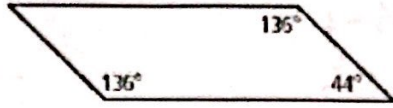
Directions: Can you prove that the quadrilateral is a parallelogram based on the given information? Explain.

1.



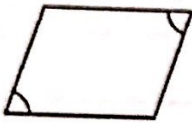
yes - diagonals bisect each other

5.



yes - an angle is supplementary to both consecutive angles

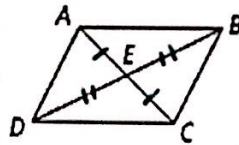
2.



not enough info - need both pairs of opposite angles to be congruent

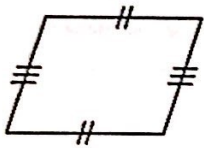
6.

$$\overline{AE} \cong \overline{EC}, \overline{BE} \cong \overline{ED}$$



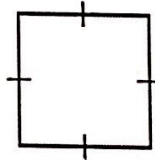
yes - diagonals bisect each other

3.



yes - opposite sides are \cong

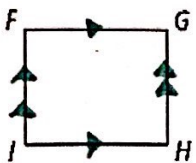
7.



yes because both pairs of opposites are \cong

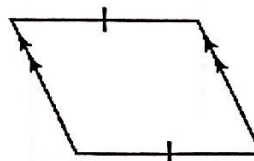
4.

$$\overline{FG} \parallel \overline{IH}, \overline{FI} \parallel \overline{GH}$$



yes - both pairs of sides are parallel

8.



not enough info - you need one pair of sides to be \cong and parallel