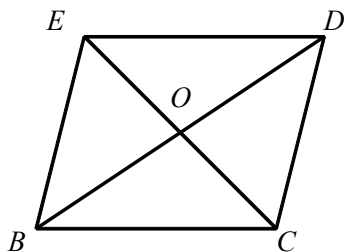


*P.I. G.G.38: Investigate, justify, and apply theorems about parallelograms involving their angles, sides, and diagonals*

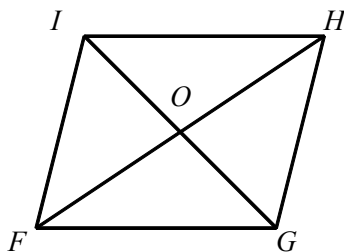
1. Complete the statement for parallelogram  $BCDE$ . Then state a definition or theorem as the reason.

$\overline{BC} \parallel$  \_\_\_\_\_



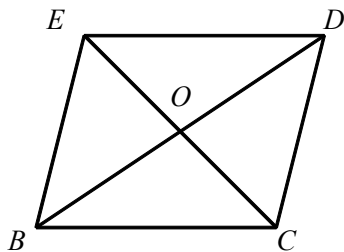
2. Complete the statement for parallelogram  $FGHI$ . Then state a definition or theorem as the reason.

$\overline{FO} \cong$  \_\_\_\_\_



3. Complete the statement for parallelogram  $BCDE$ . Then state a definition or theorem as the reason.

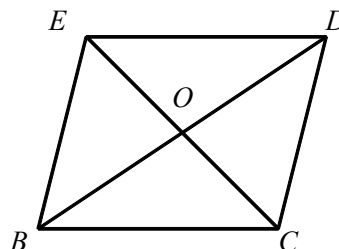
$\overline{CD} \cong$  \_\_\_\_\_



NAME: \_\_\_\_\_

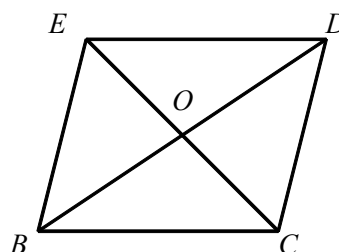
4. Complete the statement for parallelogram  $BCDE$ . Then state a definition or theorem as the reason.

$\overline{CD} \parallel$  \_\_\_\_\_



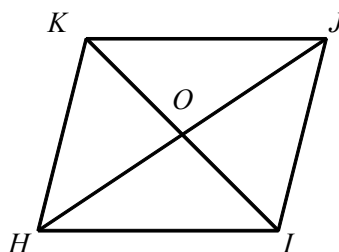
5. Complete the statement for parallelogram  $BCDE$ . Then state a definition or theorem as the reason.

$\overline{BC} \cong$  \_\_\_\_\_



6. Complete the statement for parallelogram  $HIJK$ . Then state a definition or theorem as the reason.

$\overline{KO} \cong$  \_\_\_\_\_



[1]  $\overline{ED}$ , definition of a parallelogram

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[2]  $\overline{OH}$ , the diagonals of a parallelogram bisect each other

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[3]  $\overline{BE}$ , both pairs of opposite sides of a parallelogram are congruent

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[4]  $\overline{BE}$ , definition of a parallelogram

---

[5]  $\overline{ED}$ , both pairs of opposite sides of a parallelogram are congruent

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[6]  $\overline{OI}$ , the diagonals of a parallelogram bisect each other

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