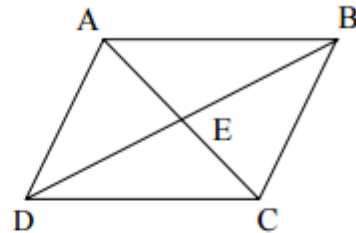


Parallelogram Overview

1. Complete the following proof by filling in each statement. Remember to mark all given information on the diagram.

Given: ABCD is a parallelogram

Prove: $\triangle ABE \cong \triangle CDE$

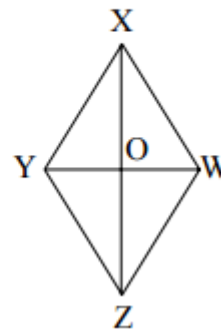


Statement	Reason
1.	1. Given
2.	2. In a parallelogram, opposite sides are congruent.
3.	3. In a parallelogram, diagonals bisect each other.
4.	4. In a parallelogram, diagonals bisect each other.
5.	5. Side-Side-Side congruence

2. Mark the given information on the diagram. Give a reason for each step in the two-column proof. Choose the reason for each statement from the list below.

Given: $\overline{YX} \cong \overline{WX}$
 \overline{ZX} bisects $\angle YXW$

Prove: $\overline{YZ} \cong \overline{WZ}$



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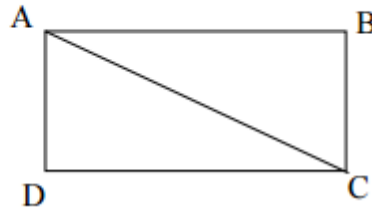
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3. Create a flow proof for the following...

Mark the given information on the diagram. Give a reason for each step in the two-column proof. Choose the reason for each statement from the list below.

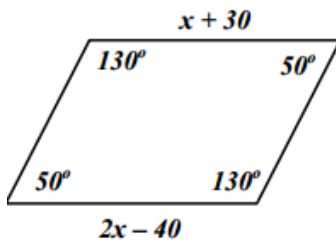
Given: $\overline{AD} \cong \overline{BC}$
 $\overline{AB} \cong \overline{DC}$

Prove: $\overline{AD} \parallel \overline{BC}$

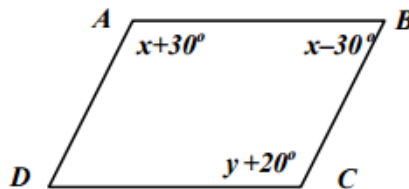


4. Solve for the unknown variables

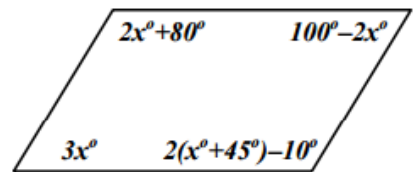
A)



B)



C)



5. Find the parameter of the following

