Aim: How can we use the properties of quadrilaterals for proofs?

Do Now: List the 5 properties of a parallelogram (again !!!):

1. _____

2. _____

3. _____

4. _____

5. _____

What makes a rectangle a special type of parallelogram?
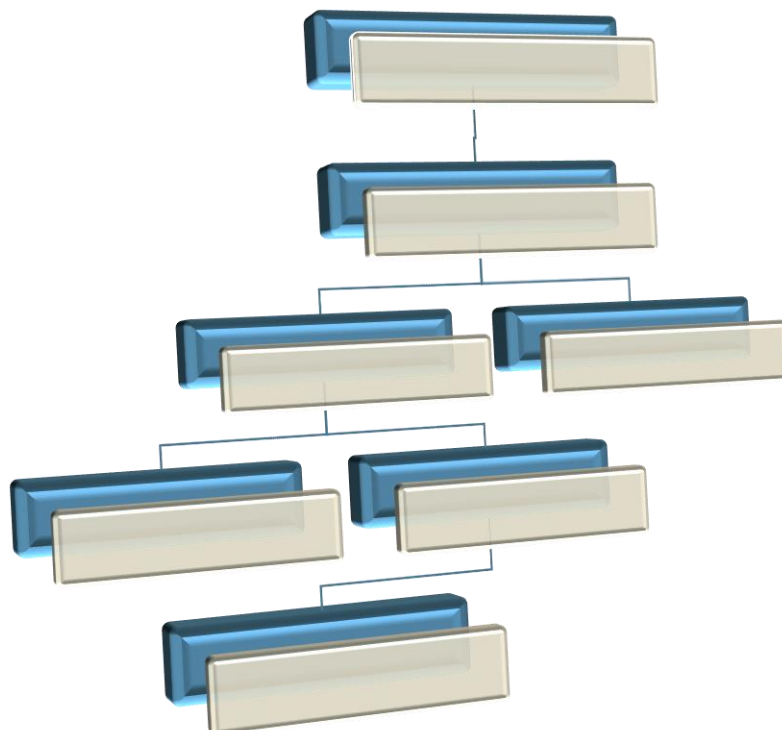-
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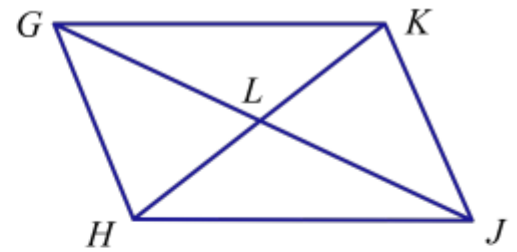What makes a rhombus a special type of parallelogram?
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What makes a square a special type of rhombus?
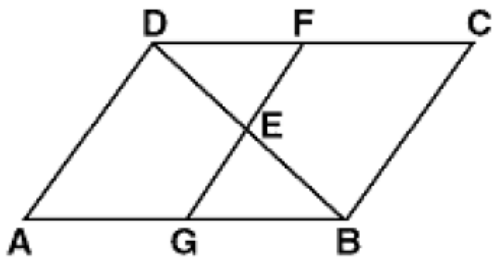-
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1.

Given: Parallelogram GHJK
Prove: ΔGLH ≅ ΔJLK
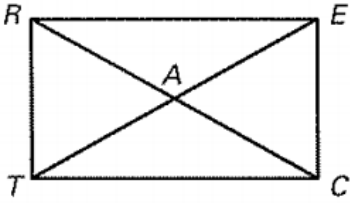
Statements	Reasons

2.

Given: ABCD is a parallelogram
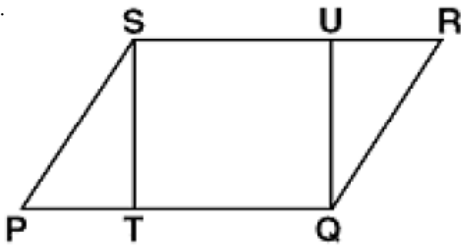 $\overline{FG}$ bisects $\overline{DB}$

Prove: $\overline{FE} \cong \overline{EG}$

3. **Given:** Rectangle $RECT$
   Prove: $\triangle ART \cong \triangle ACE$

4.

Given: PQRS is a parallelogram
      ST ⊥ PQ, QU ⊥ SR

Prove: ST ≅ QU

5.   Given: Rhombus ABCD with diagonals meeting at E

Prove: ΔAEB ≅ ΔCEB

A   B

E

D   C