Name: _____   **Date:** _____
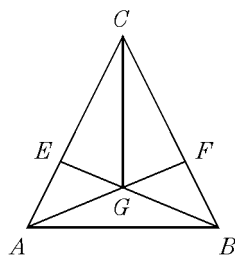
1. Given: quadrilateral *ABCD*, $\overline{BD}$ intersects $\overline{AC}$ at *E*,
             and $\overline{BD}$ bisects ∠*ABC* and ∠*ADC*.
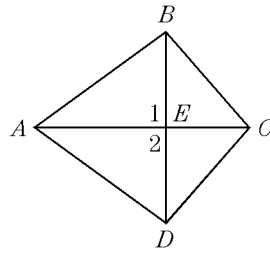
    Prove: $\overline{AE} \cong \overline{EC}$
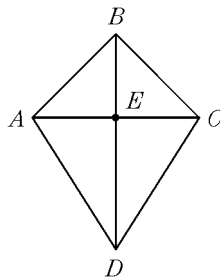
2. Given: $\overline{AEC}$, $\overline{BFC}$, $\overline{EGB}$, $\overline{FGA}$,
    $\overline{FG} \cong \overline{EG}$, and $\angle EGC \cong \angle FGC$.

    Prove: $\overline{AC} \cong \overline{BC}$
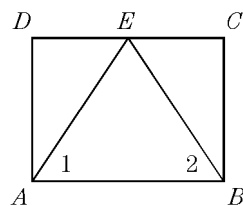
3.   Given: Quadrilateral $ABCD$, $\overline{AEC}$, $\overline{BED}$,
                      $\overline{AB} \cong \overline{AD}$, and $\overline{BC} \cong \overline{DC}$.

      Prove: $\angle 1 \cong \angle 2$

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4. Given: rectangle *ABCD* with *E*, the midpoint of $\overline{DC}$.

   Prove: ∠1 ≅ ∠2

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1.
Answer: [proof]

2.
Answer: [proof]

3.
Answer: [proof]

4.
Answer: [proof]