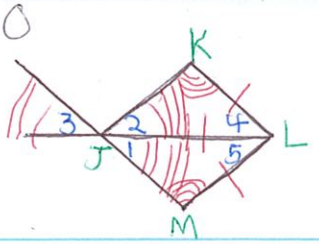
Laura Austin pd 3 proof #20




given: $\angle 2 \cong \angle 3$; $\angle 4 \cong \angle 5$

prove: $\overline{KL} \cong \overline{ML}$

| | |
|---|---|
| $\angle 2 \cong \angle 3$ $\angle 4 \cong \angle 5$ | given |
| $\angle 1 \cong \angle 3$ | vertical angles congruence theorem |
| $\overline{JL} \cong \overline{JL}$ | reflexive property |
| $\angle 2 \cong \angle 1$ | transitive property |
| $\angle JKL \cong \angle JML$ | third angles congruence theorem |
| $\triangle JKL \cong \triangle JML$ | AAS congruence postulate |
| $\overline{KL} \cong \overline{ML}$ | CPCTC |