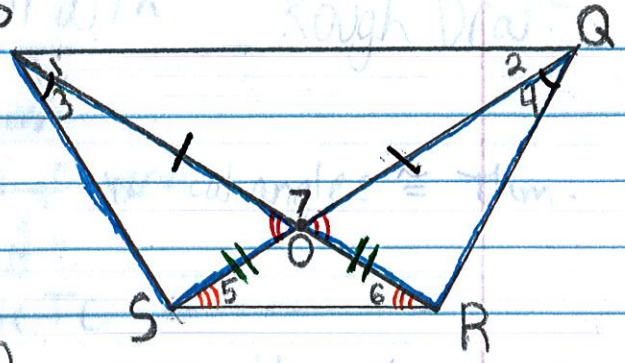
Hannah Galbraith

Given: $\overline{OP} \cong \overline{OQ}$, $\angle 3 \cong \angle 4$
Prove: $\angle 5 \cong \angle 6$

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|---|---|---|
| ① | $\overline{OP} \cong \overline{OQ}$, $\angle 3 \cong \angle 4$ | Given |
| ② | $\angle QOR \cong \angle POS$ | Vertical angles congruence Theorem |
| ③ | $\triangle QOR \cong \triangle POS$ | ASA Congruence |
| ④ | $\overline{SO} \cong \overline{RO}$ | CPCTC |
| ⑤ | $\angle 5 \cong \angle 6$ | Base Angles Theorem |

Congruent Triangles Proof