Name(Print)_____   Section_____   Grade_____

1. Prove that in a Saccheri Quadrilateral, the two sides can not meet.

2. Prove that the diagonals of a Saccheri Quadrilateral are congruent.

3. Prove the SASAA congruence theorem for two quadrilaterals: Suppose that two convex quadrilaterals $\Diamond ABCD$ and $\Diamond XYZW$ satisfy the **SASAA Hypothesis** under the correspondence $ABCD \leftrightarrow XYZW$. Then $\Diamond ABCD \cong \Diamond XYZW$.