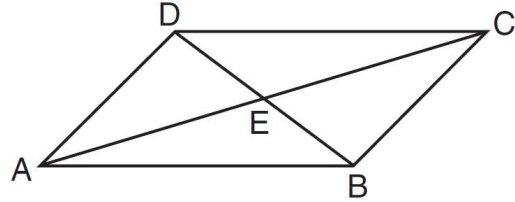


Name _____
Mr. Schlansky

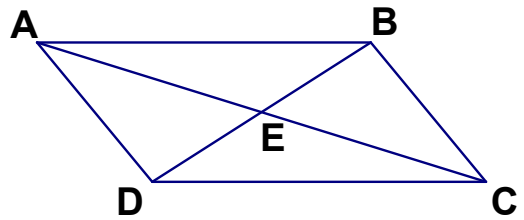
Date _____
Geometry

Triangle Proofs Given Parallelograms

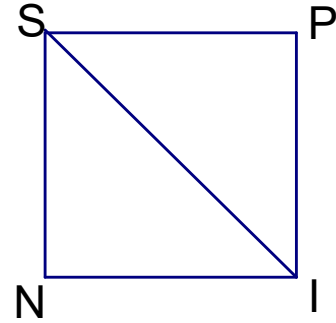
1. Given: Parallelogram $ABCD$.
Prove: $\triangle AED \cong \triangle CEB$



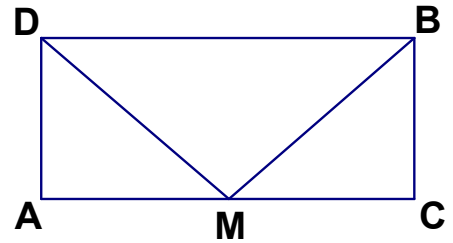
2. Given: $ABCD$ is a parallelogram
Prove: $\triangle AED \cong \triangle CEB$



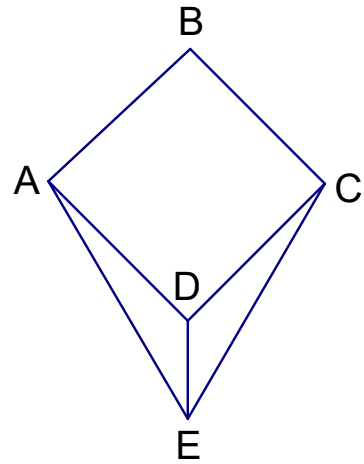
3. Given: SPIN is a square
Prove: $\triangle SNI \cong \triangle SPI$



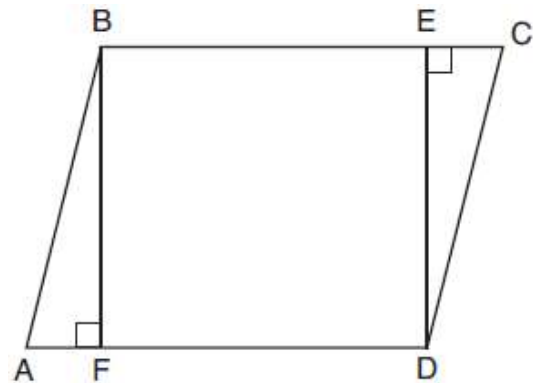
4. Given: ABCD is a rectangle, M is the midpoint of \overline{AC}
Prove: $\overline{DM} \cong \overline{BM}$



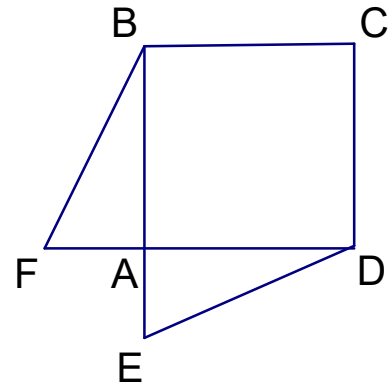
5. Given: $ABCD$ is a rhombus, $\overline{AE} \cong \overline{CE}$
 Prove: $\angle ADE \cong \angle CDE$



6. Given: Parallelogram $ABCD$, $\overline{BF} \perp \overline{AFD}$, and $\overline{DE} \perp \overline{BEC}$
 Prove: $\overline{AF} \cong \overline{EC}$



7. Given: ABCD is a square, $\overline{FA} \cong \overline{AE}$
Prove: $\overline{BF} \cong \overline{DE}$



8. Given: ABCD is a rhombus, $\overline{BE} \perp \overline{AC}$, and $\overline{DF} \perp \overline{AC}$.
Prove: $\triangle ABE \cong \triangle ADF$

