Name _____   Date _____
Mr. Schlansky   Geometry

Parallelogram Proofs Practice

1. Which of the following will prove that quadrilateral JUNE is a parallelogram?
1) $\overline{JN} \cong \overline{UE}$ 　　　　　　　　　　　3) $\overline{JU} \cong \overline{NE}$ and $\overline{JE} \parallel \overline{UN}$
2) $\angle J \cong \angle N$ and $\angle U \cong \angle E$ 　　　4) $\overline{JU} \cong \overline{UN}$

2. Which of the following will not prove that quadrilateral PORK is a parallelogram?
1) $\overline{PO} \cong \overline{RK}$ and $\overline{PK} \cong \overline{OR}$ 　　　3) $\overline{PR}$ and $\overline{OK}$ bisect each other
2) $\overline{PO} \cong \overline{RK}$ and $\overline{PK} \parallel \overline{OR}$ 　　　4) $\overline{PO} \cong \overline{RK}$ and $\overline{PO} \parallel \overline{RK}$

3. Which of the following will prove parallelogram ABCD is a rectangle?
1) $\overline{AB} \cong \overline{BC}$ 　　　　　　　　　　　3) $\overline{AC} \cong \overline{BD}$
2) $\overline{AC} \perp \overline{BD}$ 　　　　　　　　　　　4) $\overline{AB} \cong \overline{CD}$ and $\overline{AD} \cong \overline{BC}$

4. Which of the following will not prove parallelogram JKLM is a rhombus?
1) $\overline{KL} \cong \overline{LM}$ 　　　　　　　　　　　3) $\overline{JL} \cong \overline{KM}$
2) $\overline{JL} \perp \overline{KM}$ 　　　　　　　　　　　4) $\angle JKM \cong \angle CKM$

5. Which of the following will prove rectangle MATH is a square?
1) $\overline{MT} \cong \overline{AH}$ 　　　　　　　　　　　3) $\overline{KL} \perp \overline{LM}$
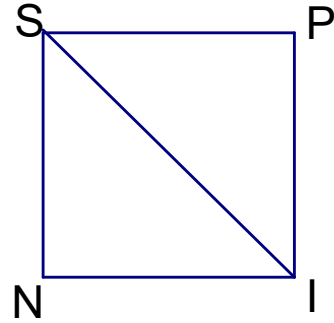2) $\overline{TH} \cong \overline{HM}$ 　　　　　　　　　　　4) $\angle A$ is a right angle
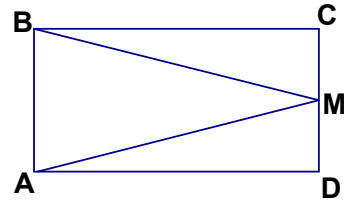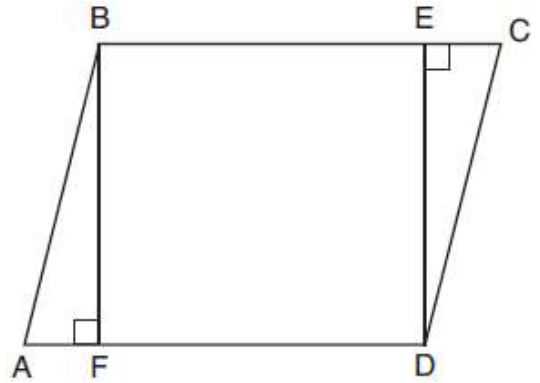
6. Given: SPIN is a square
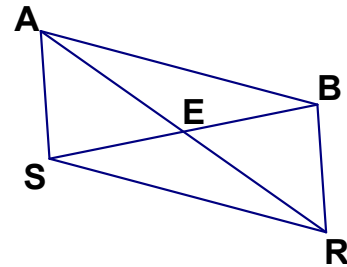Prove: $\triangle SNI \cong \triangle SPI$

7. Given: ABCD is a rectangle, M is the midpoint of $\overline{CD}$
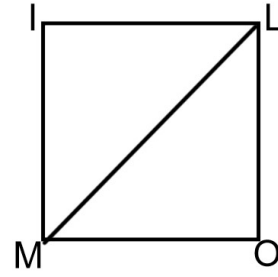Prove: $\overline{BM} \cong \overline{AM}$

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

9. Given: E is the midpoint of $\overline{SB}$, $\overline{SB}$ bisects $\overline{AR}$
Prove: SABR is a parallelogram

10. Given: MILO is a rhombus, $\overline{MI} \perp \overline{IL}$
Prove: MILO is a square

11. Given: BARK is a rectangle and $\triangle ARK$ is isosceles.
Prove: BARK is a square