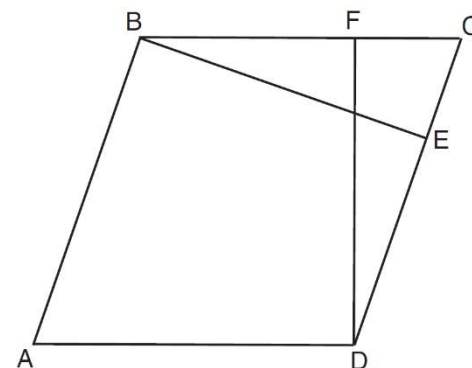


Name _____
Mr. Schlansky

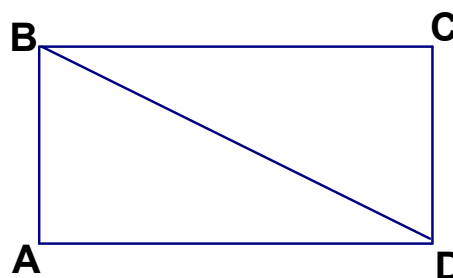
Date _____
Geometry

Proving Rectangle/Rhombus/Square Part IV

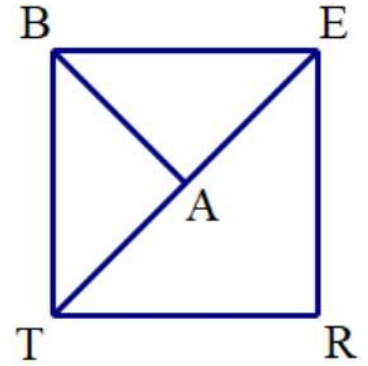
1. In the diagram of parallelogram $ABCD$ below, $\overline{BE} \perp \overline{CED}$, $\overline{DF} \perp \overline{BFC}$, $\overline{CE} \cong \overline{CF}$.
Prove $ABCD$ is a rhombus.



2. Given: $\overline{BC} \parallel \overline{AD}$, $\overline{BA} \perp \overline{AD}$, $\overline{BC} \perp \overline{CD}$
Prove: $ABCD$ is a rectangle



3. Given: $BERT$ is a rectangle, $\overline{BA}$ is the perpendicular bisector of $\overline{TE}$.
Prove $BERT$ is a square.



4. Given: Parallelogram $ABCD$, $\overline{BF} \perp \overline{AFD}$, and $\overline{DE} \perp \overline{BEC}$
Prove: $BEDF$ is a rectangle

