

Name Schlansky
Mr. Schlansky

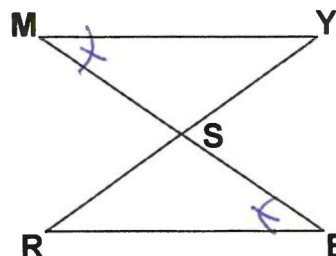
Date _____
Geometry



Proving Parallel Mini Proofs

1. Given: $\triangle MYS \cong \triangle ERS$

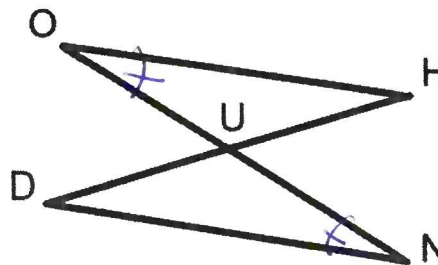
Prove: $\overline{MY} \parallel \overline{RE}$



Statements	Reasons
① $\triangle MYS \cong \triangle ERS$	① given
② $\angle M \cong \angle E$	② CPCTC
③ $\overline{MY} \parallel \overline{RE}$	③ Parallel lines cut by a transversal create congruent alternate interior angles

2. Given: $\triangle OHU \cong \triangle NDU$

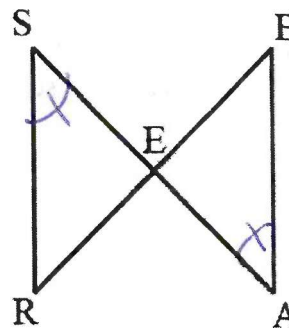
Prove: $\overline{OH} \parallel \overline{DN}$



Statements	Reasons
① $\triangle OHU \cong \triangle NDU$	① given
② $\angle O \cong \angle N$	② CPCTC
③ $\overline{OH} \parallel \overline{DN}$	③ Parallel lines cut by a transversal create congruent alternate interior angles

3. Given: $\triangle SRE \cong \triangle ABE$

Prove: $\overline{SR} \parallel \overline{BA}$

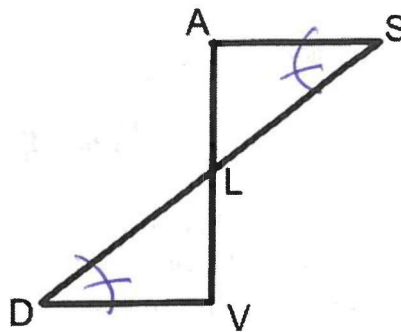


Statements	Reasons
① $\triangle SRE \cong \triangle ABE$	① given
② $\angle S \cong \angle A$	② CPCTC
③ $\overline{SR} \parallel \overline{BA}$	③ Parallel lines cut by a transversal create congruent alternate interior angles

4. Given: $\triangle SAL \cong \triangle DVL$

Prove: $\overline{DV} \parallel \overline{AS}$

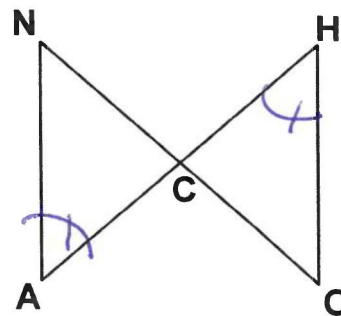
Statements	Reasons
① $\triangle SAL \cong \triangle DVL$	① given
② $\angle D \cong \angle S$	② CPCTC
③ $\overline{DV} \parallel \overline{AS}$	③ Parallel lines cut by a transversal create congruent alternate interior angles.



5. Given: $\triangle NCA \cong \triangle OCH$

Prove: $\overline{NA} \parallel \overline{HO}$

Statements	Reasons
① $\triangle NCA \cong \triangle OCH$	① given
② $\angle A \cong \angle H$	② CPCTC
③ $\overline{NA} \parallel \overline{HO}$	③ Parallel lines cut by a transversal create congruent alternate interior angles



6. Given: $\triangle ABE \cong \triangle RSE$

Prove: $\overline{SR} \parallel \overline{AB}$

Statements	Reasons
① $\triangle ABE \cong \triangle RSE$	① given
② $\angle A \cong \angle R$	② CPCTC
③ $\overline{SR} \parallel \overline{AB}$	③ Parallel lines cut by a transversal create congruent alternate interior angles.

