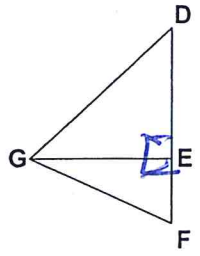
Name Schlansky
Mr. Schlansky

Date _____
Geometry

Mini Proofs

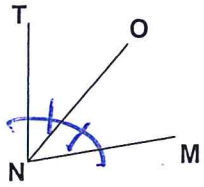
Drawn conclusions until congruence for each example

1. Given: $\overline{GE}$ is an altitude



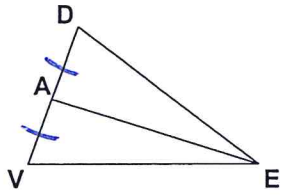
Statements	Reasons
① $\overline{GE}$ is an altitude	① given
② $\angle GED \cong \angle GEF$	② An altitude creates two congruent right angles

2. Given: $\overline{ON}$ bisects $\angle TNM$



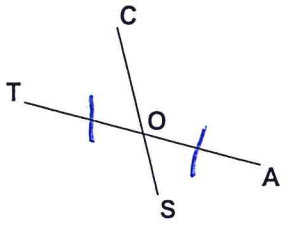
Statements	Reasons
① $\overline{ON}$ bisects $\angle TNM$	① given
② $\angle TNO \cong \angle MNO$	② An angle bisector creates two congruent angles.

3. Given: A is the midpoint of $\overline{DV}$



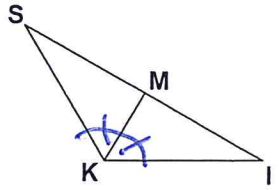
Statements	Reasons
① A is the midpoint of $\overline{DV}$	① given
② $\overline{DA} \cong \overline{AV}$	② A midpoint creates two congruent segments

4. Given: $\overline{CS}$ bisects $\overline{TA}$



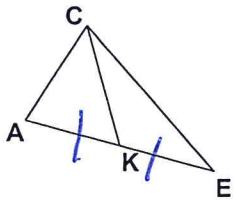
Statements	Reasons
① $\overline{CS}$ bisects $\overline{TA}$	① given
② $\overline{TO} \cong \overline{OA}$	② A line bisector creates two congruent segments.

5. Given: $\overline{KM}$ bisects $\angle SKI$



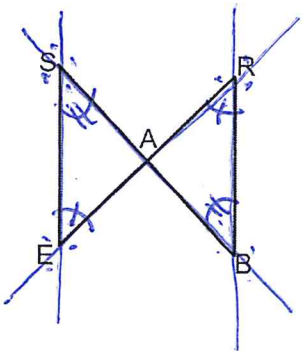
Statements	Reasons
① $\overline{KM}$ bisects $\angle SKI$	①
② $\angle SKM \cong \angle IKM$	② An angle bisector creates two congruent angles.

6. $\overline{CK}$ is a median



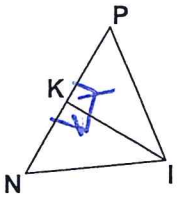
Statements	Reasons
① $\overline{CK}$ is a median	① given
② $\overline{AK} \cong \overline{KE}$	② A median creates two congruent segments.

7. Given: $\overline{SE} \parallel \overline{RB}$



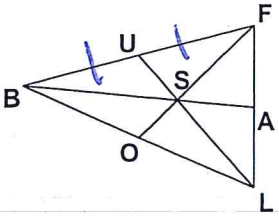
Statements	Reasons
① $\overline{SE} \parallel \overline{RB}$	① given
② $\angle SEA \cong \angle BRA$ $\angle ASE \cong \angle RBA$	② Parallel lines cut by a transversal create congruent alternate interior angles

8. Given: $\overline{IK} \perp \overline{PN}$



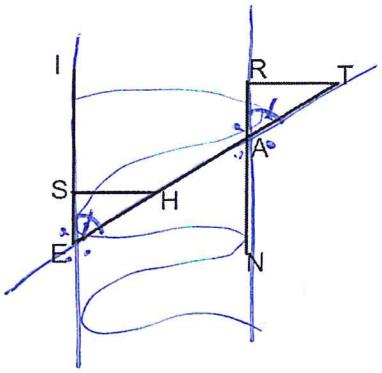
Statements	Reasons
① $\overline{IK} \perp \overline{PN}$	① given
② $\angle PKI \cong \angle NKI$	② Perpendicular lines create congruent right angles.

9. Given: U is the midpoint of $\overline{BF}$



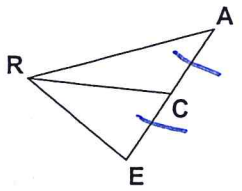
Statements	Reasons
① U is the midpoint of $\overline{BF}$	① given
② $\overline{BU} \cong \overline{UF}$	② A midpoint creates two congruent segments

10. Given: $\overline{IE} \parallel \overline{RN}$



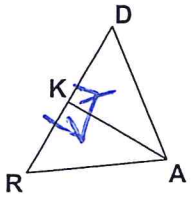
Statements	Reasons
① $\overline{IE} \parallel \overline{RN}$	① given
② $\angle TAR \cong \angle HES$	② Parallel lines cut by a transversal create congruent corresponding angles

11. Given: C is the midpoint of $\overline{AE}$



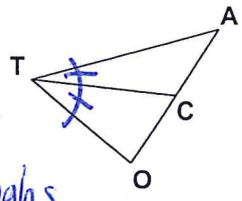
Statements	Reasons
① C is the midpoint of $\overline{AE}$	① given
② $\overline{AC} \cong \overline{CE}$	② A midpoint creates two congruent segments

12. Given: $\overline{AK} \perp \overline{DR}$



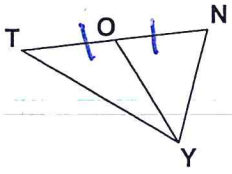
Statements	Reasons
① $\overline{AK} \perp \overline{DR}$	① given
② $\angle DKA \cong \angle RKA$	② Perpendicular lines create congruent right angles

13. Given: $\overline{CT}$ bisects $\angle ATO$



Statements	Reasons
① $\overline{CT}$ bisects $\angle ATO$	① given
② $\angle ATC \cong \angle OTC$	② An angle bisector creates two congruent angles

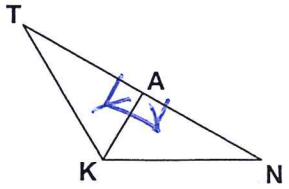
14. Given: $\overline{YO}$ is a median



Statements	Reasons
① $\overline{YO}$ is a median	① given
② $\overline{TO} \cong \overline{ON}$	② A median creates two congruent segments

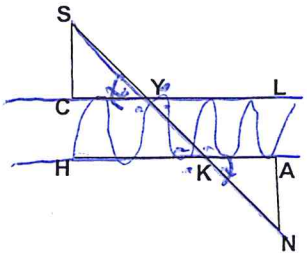
15. Given: $\overline{KA}$ is an altitude

Statements	Reasons
① $\overline{KA}$ is an altitude	① Given
② $\angle KAT \cong \angle KAN$	② An altitude creates two congruent right angles



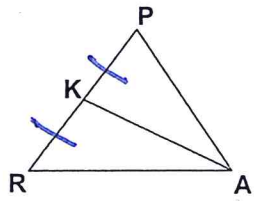
16. Given: $\overline{CL} \parallel \overline{HA}$

Statements	Reasons
① $\overline{CL} \parallel \overline{HA}$	① given
② $\angle SYC \cong \angle NKA$	② Parallel lines cut by a transversal create congruent alternate exterior angles



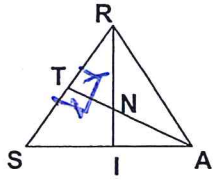
17. Given: $\overline{KA}$ bisects $\overline{PR}$

Statements	Reasons
① $\overline{KA}$ bisects $\overline{PR}$	① given
② $\overline{PK} \cong \overline{KR}$	② A line bisector creates two congruent segments.



18. Given: $\overline{AT} \perp \overline{RS}$

Statements	Reasons
① $\overline{AT} \perp \overline{RS}$	① given
② $\angle RTA \cong \angle STA$	② Perpendicular lines create congruent right angles.



19 $\overline{DA}$ bisects $\angle RDE$

Statements	Reasons
① $\overline{DA}$ bisects $\angle RDE$	① given
② $\angle RDA \cong \angle EDA$	② An angle bisector creates two congruent angles.