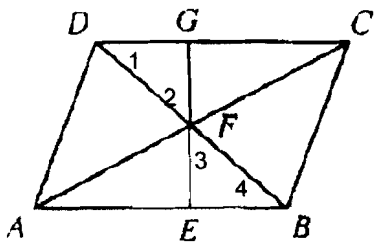
Geometry--Handout 5A Name_____

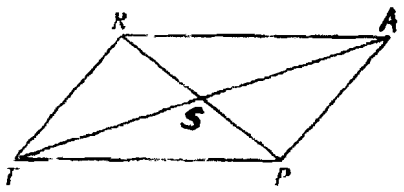
Sections 5-1 thru 5-4

* Copy everything onto your paper *

1. Given: parallelogram *DCBA*
   Prove: $\Delta DGF \cong \Delta BEF$

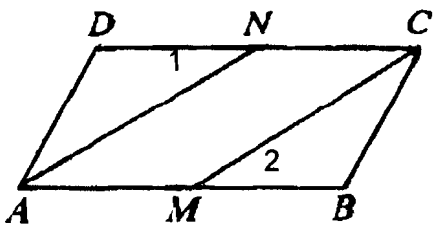


2. Supply the missing reasons in the proof.
   Given: $\Delta RST \cong \Delta PSA$
   Prove: quadrilateral *PART* is a parallelogram



STATEMENTS	REASONS
1. $\Delta RST \cong \Delta PSA$	1. given
2. $\overline{RS} \cong \overline{PS}$, $\overline{AS} \cong \overline{TS}$	2.
3. S is the midpoint of $\overline{RP}$ and $\overline{AT}$	3.
4. $\overline{RP}$ and $\overline{AT}$ bisect each other	4.
5. quad. *PART* is a parallelogram	5.

3. Given: parallelogram *DCBA*, $\overline{NA} \parallel \overline{CM}$, $\angle 1 \cong \angle 2$
   Prove: quadrilateral *NCMA* is a parallelogram



STATEMENTS	REASONS
1. parallelogram *DCBA*, $\angle 1 \cong \angle 2$	1. given
2. $\angle D \cong \angle B$	2.
3. $\overline{DA} \cong \overline{BC}$	3.
4. $\Delta ADN \cong \Delta CBM$	4.
5. $\overline{AN} \cong \overline{CM}$	5.
6. $\overline{NA} \parallel \overline{CM}$	6. given
7.	7.

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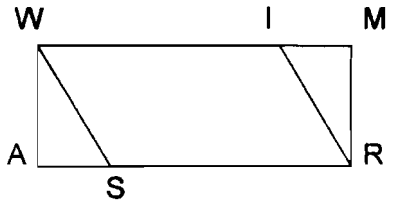
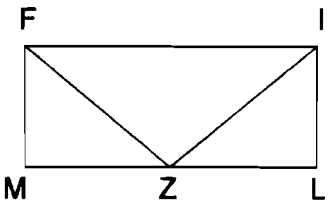
4. Given: Rectangle *WARM*, $\overline{AS} \cong \overline{MI}$
   Prove: $\overline{WS} \cong \overline{RI}$

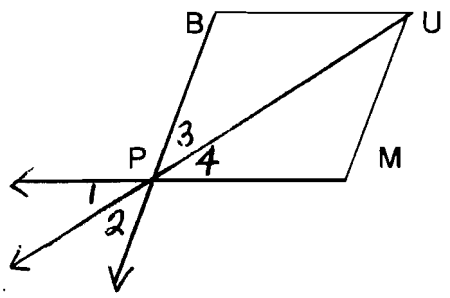


5. Given: Rectangle *FILM*, *Z* is midpoint of $\overline{ML}$
   Prove: ΔFIZ is isosceles

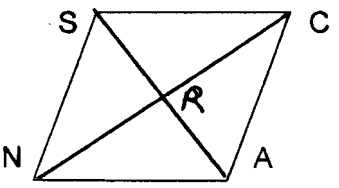


(Hint: prove Δs congruent in #4 and #5)

6. Given: rhombus *BUMP*
   Prove: $\angle 1 \cong \angle 2$



7. Given: rhombus *SCAN*
   Prove: $\Delta SNR \cong \Delta SCR$



8. Given: square *CUBE*
   Prove: $\Delta CBE \cong \Delta UEB$