

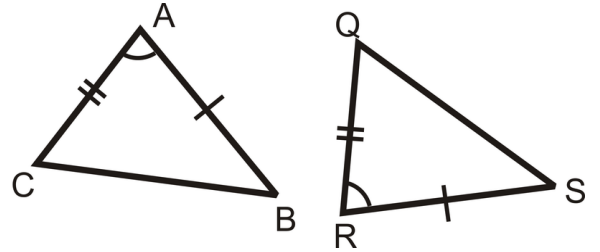
Name _____ Per _____

LO: I can use the SAS shortcut for proving that two triangles are congruent to determine whether or not two triangles are congruent and write a proof.

DO NOW On the back of this packet

(1) Given: The diagram as marked

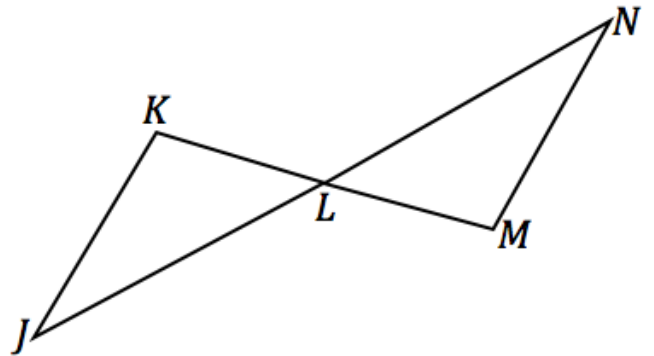
Prove that $\triangle ABC \cong \triangle RSQ$ or explain why you cannot.



I know that . . .	because . . .

(2) Given: \overline{KM} and \overline{JN} bisect each other.

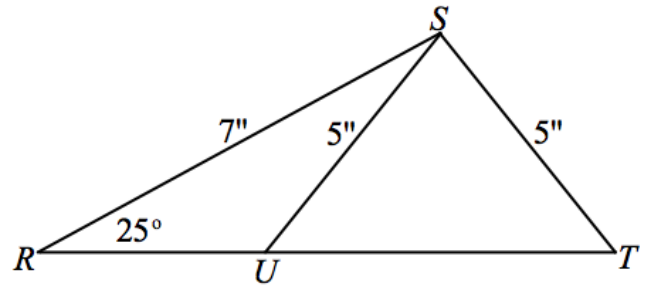
Prove that $\triangle JKL \cong \triangle NML$ or explain why you cannot.



I know that . . .	because . . .

- (3) Given: $m\angle R = 25^\circ$, $RT = 7''$, $SU = 5''$, $ST = 5''$

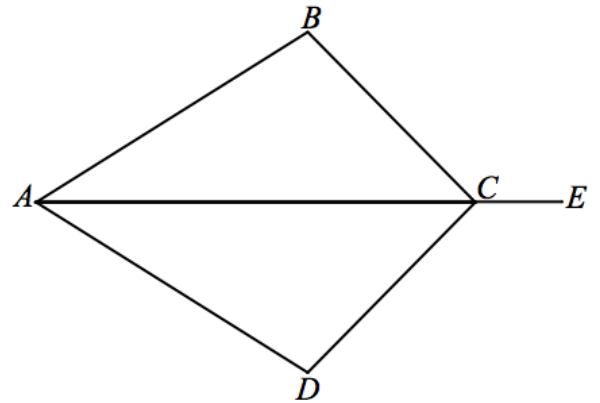
Prove that $\triangle RSU \cong \triangle RST$ or explain why you cannot.



I know that ...	because ...

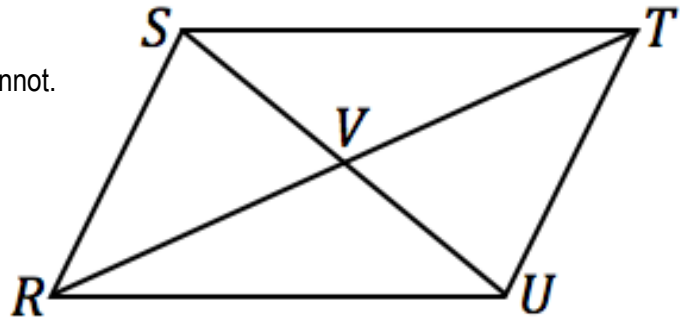
- (4) Given: \overline{AE} bisects $\angle BCD$, $\overline{BC} \cong \overline{DC}$.

Prove that $\triangle CAB \cong \triangle CAD$ or explain why you cannot.



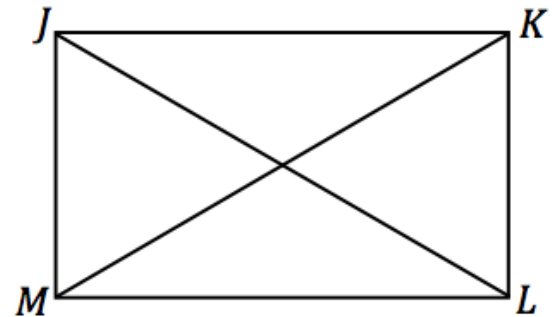
I know that ...	because ...

- (5) Given: \overline{SU} and \overline{RT} bisect each other.
 Prove that $\triangle SVR \cong \triangle UVT$ or explain why you cannot.



I know that ...	because ...

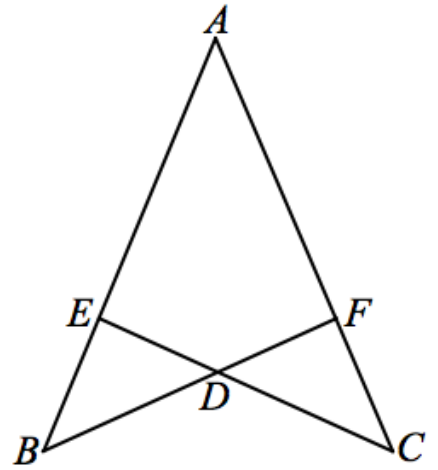
- (6) Given: $\overline{KL} \perp \overline{LM}$, $\overline{JM} \perp \overline{LM}$, and $\overline{JM} \cong \overline{KL}$
 Prove that $\triangle JML \cong \triangle KLM$ or explain why you cannot.



I know that ...	because ...

(7) Given: $\overline{BF} \perp \overline{AC}$, $\overline{CE} \perp \overline{AB}$

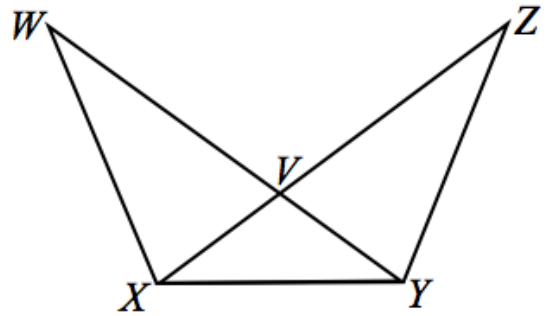
Prove that $\triangle BED \cong \triangle CFD$ or explain why you cannot.



I know that ...	because ...

(8) Given: $\angle VXY \cong \angle VYX$.

Prove that $\triangle VXW \cong \triangle VYZ$ or explain why you cannot.



I know that ...	because ...

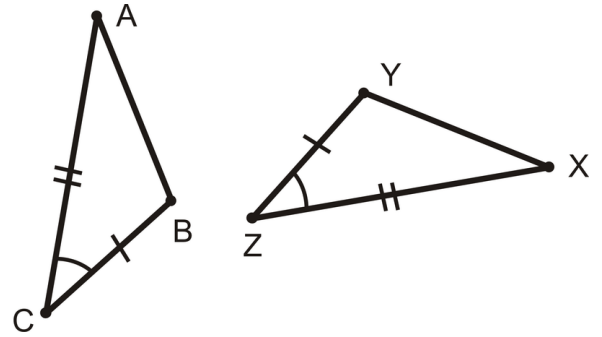
(9) **Exit Ticket**

ON THE LAST PAGE

(10) **Homework**

(1) Given the diagram at right

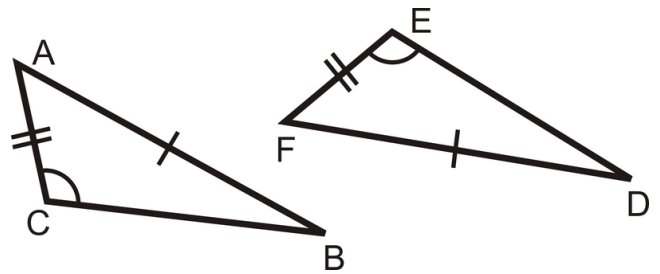
PROVE: $\triangle ABC \cong \triangle XYZ$



I know that ...	because ...

(2) Given the diagram at right

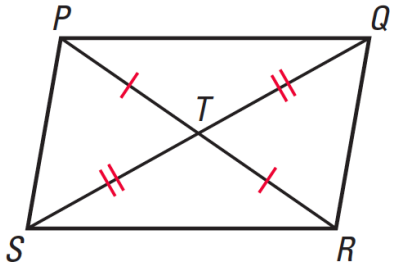
PROVE: $\triangle ABC \cong \triangle FDE$



I know that ...	because ...

□(10) □(3) **GIVEN** ▶ $\overline{PT} \cong \overline{RT}$, $\overline{QT} \cong \overline{ST}$

PROVE ▶ $\triangle PQT \cong \triangle RST$

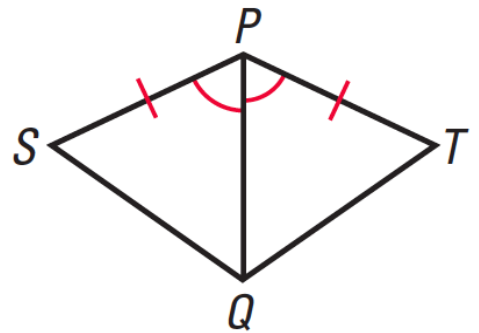


I know that ...

because ...

□(4) **GIVEN** ▶ \overrightarrow{PQ} bisects $\angle SPT$,
 $\overline{SP} \cong \overline{TP}$

PROVE ▶ $\triangle SPQ \cong \triangle TPQ$



I know that ...

because ...

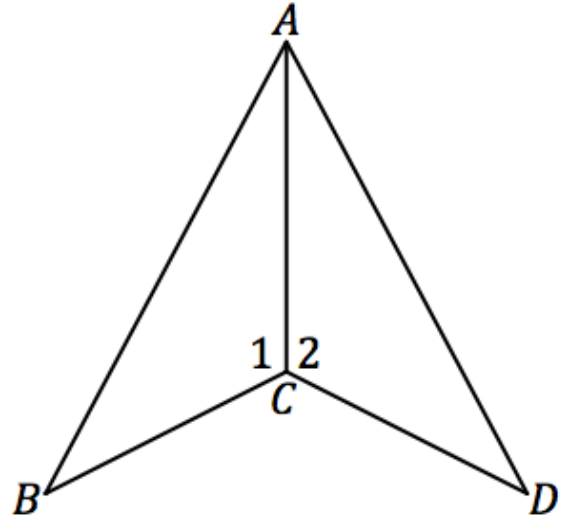
Exit Ticket Name _____ Date _____ Per _____

4.3R

(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

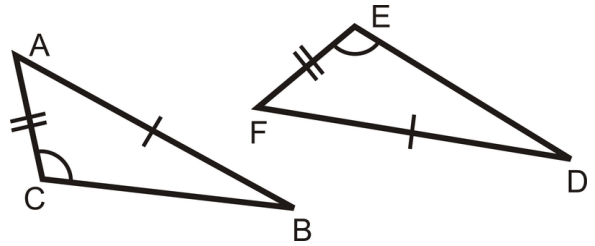
Given: $\angle 1 \cong \angle 2$, $\overline{BC} \cong \overline{DC}$

Prove that $\triangle ABC \cong \triangle ADC$ or explain why you cannot.



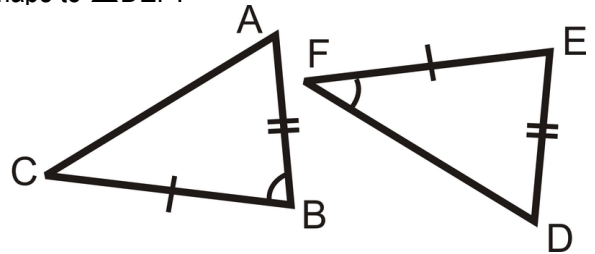
(1a) Can we use the SAS congruence shortcut to show that $\triangle ABC$ maps to $\triangle FDE$?

Explain.



(1b) Can we use the SAS congruence shortcut to show that $\triangle ABC$ maps to $\triangle DEF$?

Explain.



(2) Which two images below are identical?

