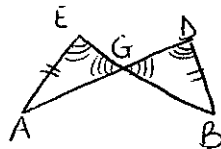
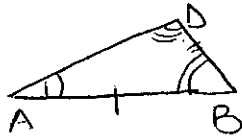
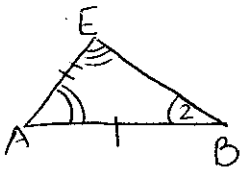
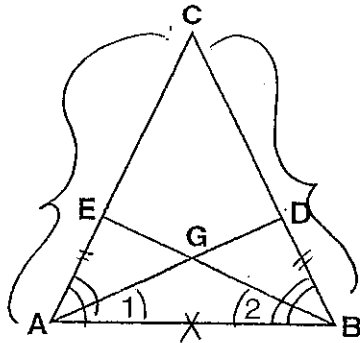


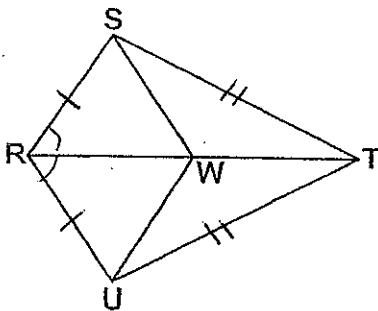
2) Given: $\triangle ABC$, $\overline{AC} \cong \overline{BC}$, \overline{AD} and \overline{BE} intersect at G , and $\angle 1 \cong \angle 2$.

Prove: $\overline{EG} \cong \overline{DG}$

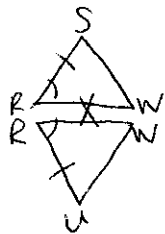
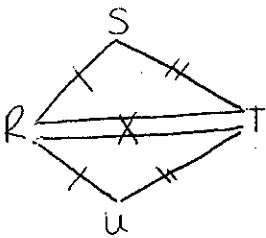


STATEMENTS	REASONS
(1) $\triangle ABC$, $\overline{AC} \cong \overline{BC}$, $\angle 1 \cong \angle 2$	(1) GIVEN
(2) $\angle CAB \cong \angle CBA$	(2) In a \triangle , if 2 sides are \cong the \angle s opposite them are \cong
(3) $\overline{AB} \cong \overline{BA}$	(3) Reflexive
(4) $\triangle EAB \cong \triangle DBA$	(4) ASA \cong ASA
(5) $\angle AEB \cong \angle BDA$, $\overline{AE} \cong \overline{BD}$	(5) CPCTC
(6) $\angle EGA \cong \angle DGB$	(6) Intersecting lines form \cong vertical \angle s
(7) $\triangle EGA \cong \triangle DGB$	(7) AAS \cong AAS
(8) $\overline{EG} \cong \overline{DG}$	(8) CPCTC

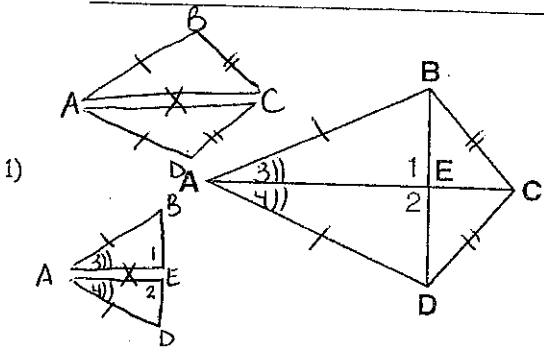
3) Complete the given partial proof by providing the missing statements and/or reasons.



Given: $\overline{RS} \cong \overline{RU}$, $\overline{ST} \cong \overline{UT}$
 Prove: $\overline{SW} \cong \overline{UW}$



STATEMENTS	REASONS
(1) $\overline{RS} \cong \overline{RU}$, $\overline{ST} \cong \overline{UT}$	(1) Given
(2) $\overline{RT} \cong \overline{RT}$	(2) Any number is congruent to itself. Reflexive
(3) $\triangle RST \cong \triangle RUT$	(3) SSS \cong SSS
(4) $\angle SRW \cong \angle URW$	(4) CPCTC
(5) $\overline{RW} \cong \overline{RW}$	(5) Same as 2 Reflexive
(6) $\triangle SRW \cong \triangle URW$	(6) SAS \cong SAS
(7) $\overline{SW} \cong \overline{UW}$	(7) CPCTC

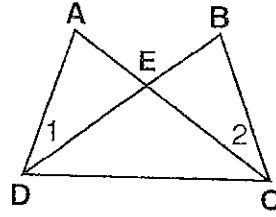


1)

Given: In quadrilateral ABCD, $\overline{AB} \cong \overline{AD}$ and $\overline{BC} \cong \overline{DC}$.

Prove: $\angle 1 \cong \angle 2$

3)



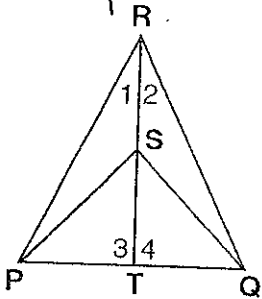
Given: $\overline{AE} \cong \overline{EB}$
 $\overline{DE} \cong \overline{EC}$

Prove: $\angle 1 \cong \angle 2$

- S
- 1) Quad ABCD, $\overline{AB} \cong \overline{AD}$
 - 2) $\overline{BC} \cong \overline{DC}$
 - 3) $\overline{AC} \cong \overline{AC}$
 - 4) $\triangle ABC \cong \triangle ADC$
 - 5) $\angle 3 \cong \angle 4$
 - 6) $\overline{AE} \cong \overline{AE}$
 - 7) $\triangle ABE \cong \triangle ADE$
 - 8) $\angle 1 \cong \angle 2$

- R
- 1) Given
 - 2) Reflexive
 - 3) SSS \cong SSS
 - 4) CPCTC
 - 5) Reflexive
 - 6) SAS \cong SAS
 - 7) CPCTC

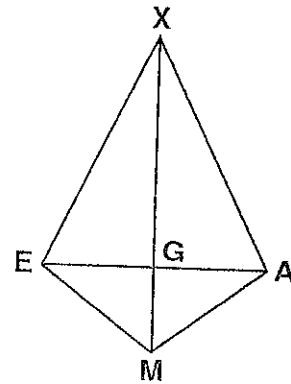
2)



Given: $\overline{RT} \perp \overline{PQ}$
 $\overline{PS} \cong \overline{SQ}$

Prove: $\angle 1 \cong \angle 2$

4)



Given: In quadrilateral EXAM, \overline{EA} intersects \overline{XM} at G,
and XM bisects $\angle EXA$ and $\angle EMA$.

Prove: $\overline{EG} \cong \overline{GA}$