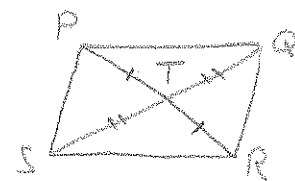
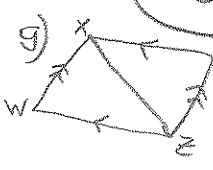
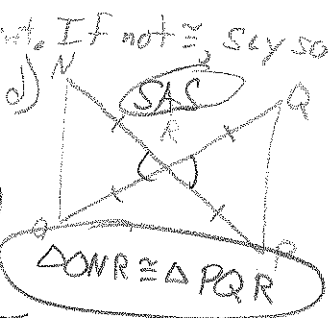
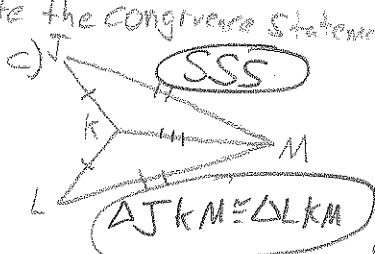
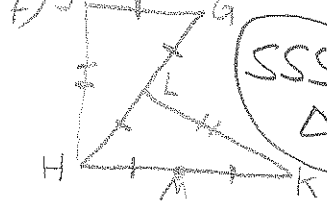
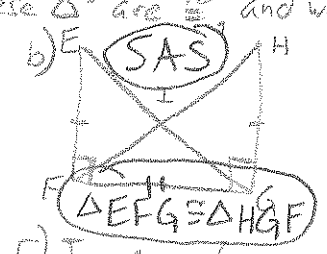
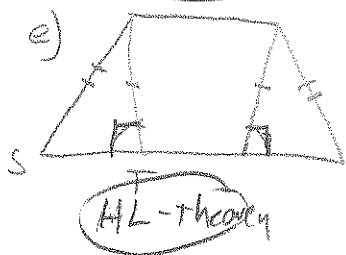
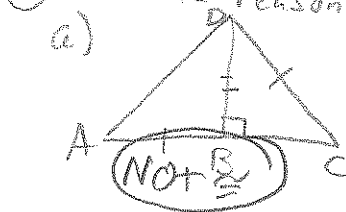


- what reason are these Δ 's \cong ? SAS
 - write the congruence statement $\Delta ABC \cong \Delta CDA$
 - $\overline{AB} \cong \overline{CD}$ - $\angle ABC \cong \angle CDA$ - $\overline{DA} \cong \overline{BC}$

A \rightarrow C
 B \rightarrow D
 C \rightarrow A

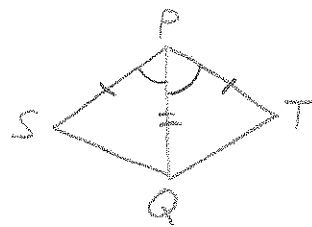
2) Give the reason these Δ 's are \cong and write the congruence statement. If not \cong , say so.



3) Given: T is the midpoint of \overline{PR} & of \overline{SQ}
 Prove: $\overline{PS} \cong \overline{RQ}$

Statements	Reasons
1) T is midpoint of \overline{PR} & \overline{SQ}	1) Given
2) $\overline{PT} \cong \overline{RT}$; $\overline{ST} \cong \overline{QT}$	2) Def. of Midpoint
3) $\angle PTS \cong \angle RTQ$	3) Vertical \angle 's \cong
4) $\Delta PTS \cong \Delta RTQ$	4) SAS
5) $\overline{PS} \cong \overline{RQ}$	5) CPCTC

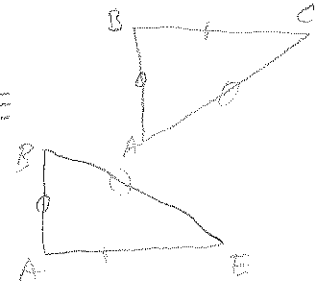
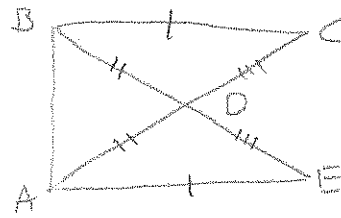
4) Given: \overline{PQ} bisects $\angle SPT$; $\overline{SP} \cong \overline{TP}$
 Prove: $\angle SQP \cong \angle TQP$



Statements	Reasons
1) \overline{PQ} bisects $\angle SPT$; $\overline{SP} \cong \overline{TP}$	1) Given
2) $\angle SPQ \cong \angle TPQ$	2) Def. of angle bisector
3) $\overline{PQ} \cong \overline{PQ}$	3) Reflexive
4) $\Delta SPQ \cong \Delta TPQ$	4) SAS
5) $\angle SQP \cong \angle TQP$	5) CPCTC

5) Given; $\overline{BC} \cong \overline{AE}$; $\overline{AD} \cong \overline{BD}$; $\overline{DE} \cong \overline{DC}$

Prove: $\triangle ABC \cong \triangle BAE$



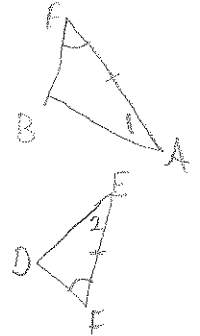
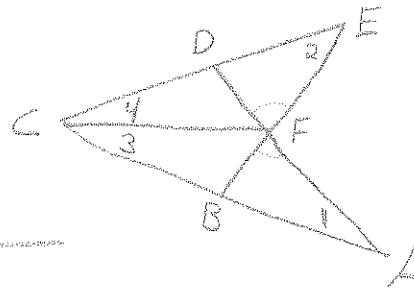
Statement

Reason

① $\overline{BC} \cong \overline{AE}$; $\overline{AD} \cong \overline{BD}$; $\overline{DE} \cong \overline{DC}$	① Given
② $\overline{BD} + \overline{DE} = \overline{BE}$ $\overline{CD} + \overline{DA} = \overline{CA}$	② Segment Addition Postulate
③ $\overline{BE} \cong \overline{AC}$	③ Substitution/Transitive
④ $\overline{AB} \cong \overline{BA}$	④ Reflexive
⑤ $\triangle ABC \cong \triangle BAE$	⑤ SSS

6) Given; $\angle 1 \cong \angle 2$; $\angle 3 \cong \angle 4$

Prove: $\triangle AFB \cong \triangle EFD$

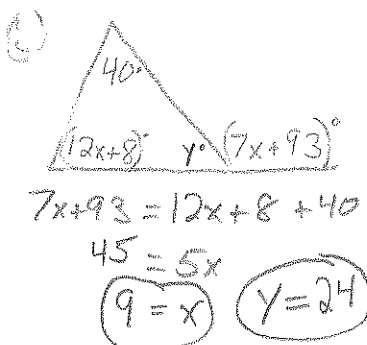
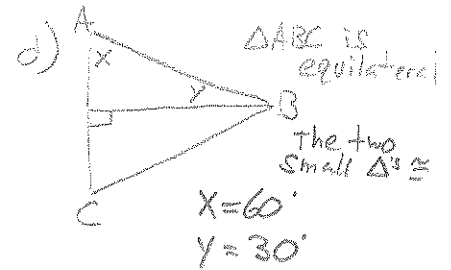
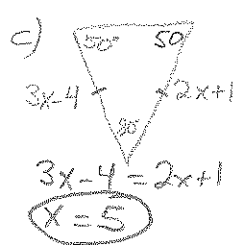
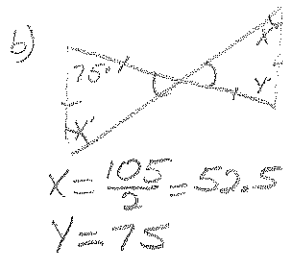
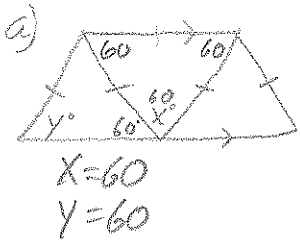


Statements

Reasons

① $\angle 1 \cong \angle 2$; $\angle 3 \cong \angle 4$	① Given
② $\overline{CF} \cong \overline{CF}$	② Reflexive
③ $\triangle ECF \cong \triangle ACF$	③ AAS
④ $\overline{EF} \cong \overline{AF}$	④ CPCTC
⑤ $\angle DFE \cong \angle BFA$	⑤ Vertical \angle 's \cong
⑥ $\triangle AFB \cong \triangle EFD$	⑥ ASA

7) Solve for x & y



8) Solve for the variables $\triangle ABC$ is shifted right +4 & down 2 to $\triangle DEF$

$A(3, -2)$

$B(1, 1)$

$C(2d+3, e-5)$

$2d+3+4 = d-1$

$2d+7 = d-1$

$d = -8$

$D(a, -4)$

$E(b+3, c-1)$

$F(d-1, 6)$

$e-5-2 = 6$
 $e-7 = 6$ $e = 13$

$b+3 = 5$ $c-1 = 1$
 $b = 2$ $c = 0$