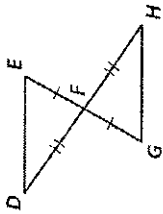
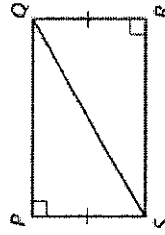
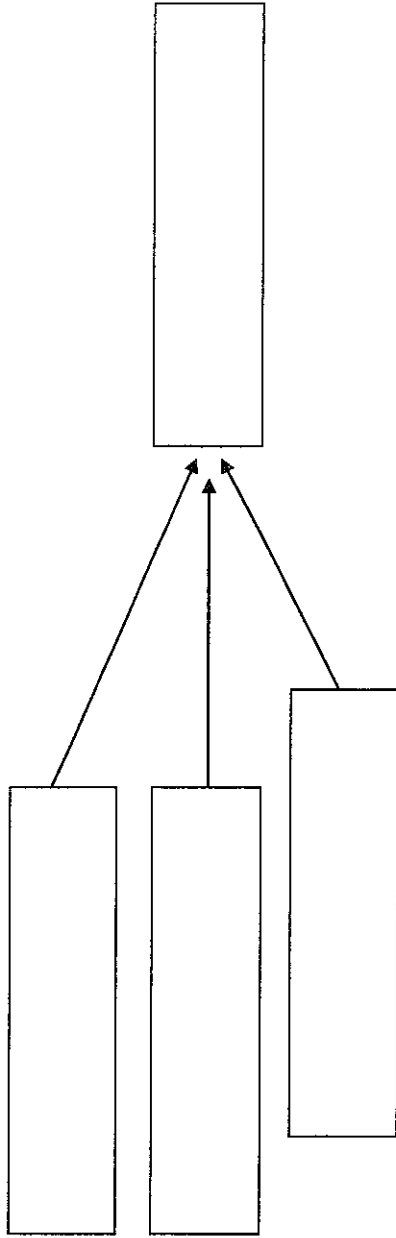


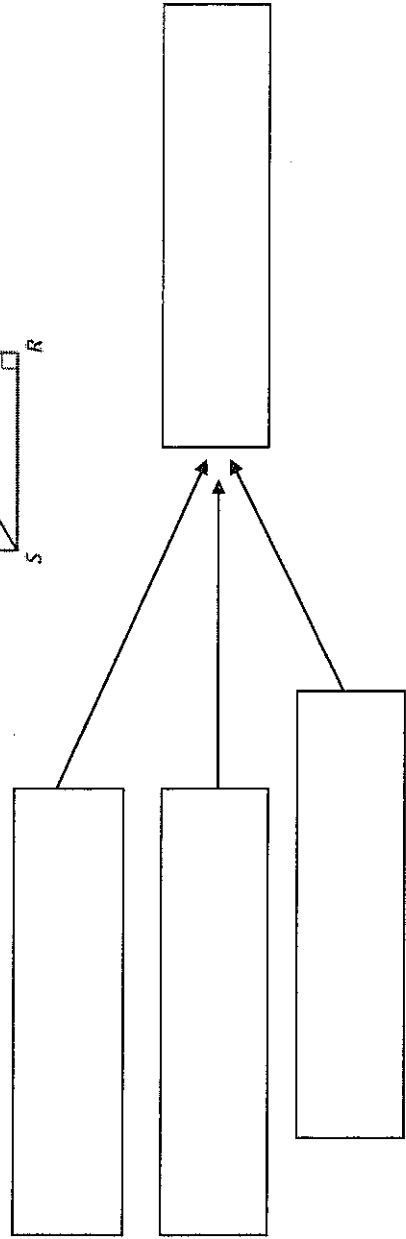
Triangle Congruence Proofs Worksheet – Write a flow proof or two-column proof for each.



1. Given: $\overline{EF} \cong \overline{FG}$, $\overline{DF} \cong \overline{FH}$
 Prove: $\triangle DFE \cong \triangle HFG$



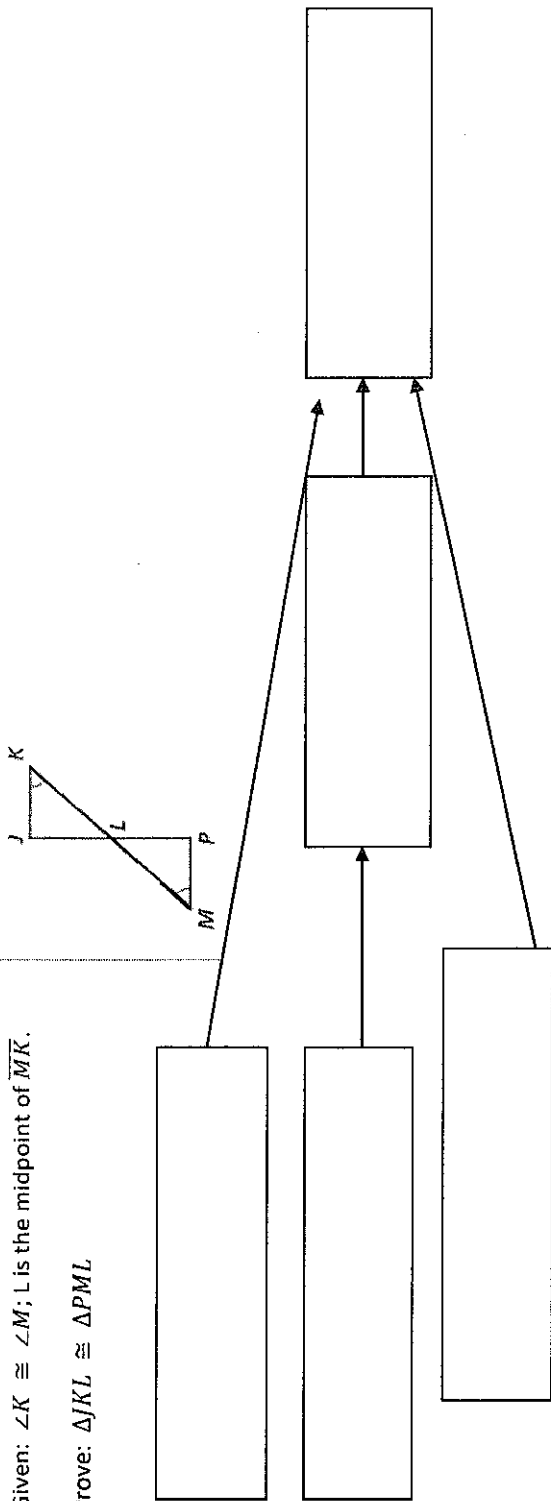
2. Given: $\angle P$ and $\angle R$ are right angles, $\overline{PS} \cong \overline{QR}$
 Prove: $\triangle PQS \cong \triangle RSQ$



Flow B

3. Given: $\angle K \cong \angle M$; L is the midpoint of \overline{MK} .

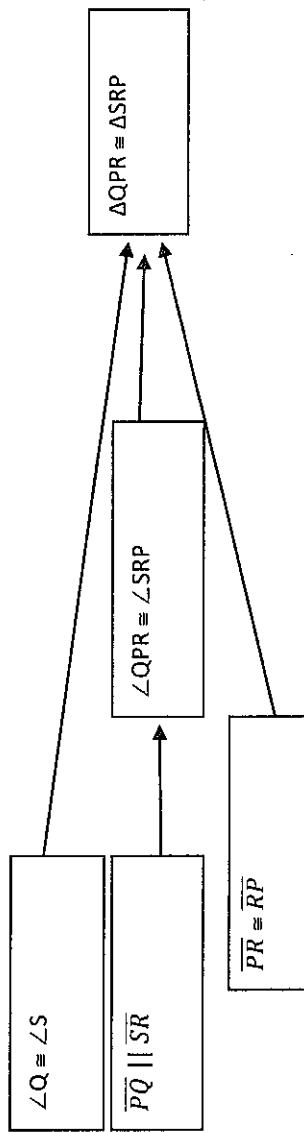
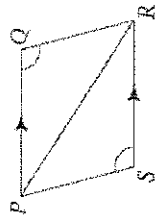
Prove: $\triangle JKL \cong \triangle PML$



4. Fill in the missing reasons.

Given: $\overline{PQ} \parallel \overline{SR}$, $\angle Q \cong \angle S$

Prove: $\triangle QPR \cong \triangle SRP$

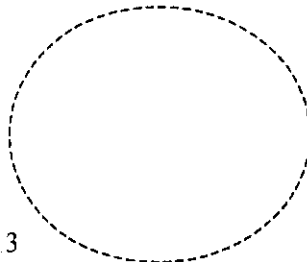
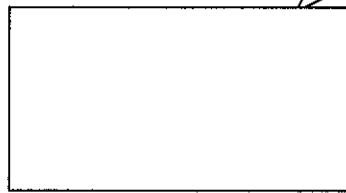
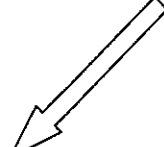
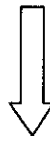
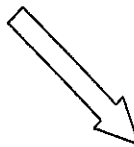
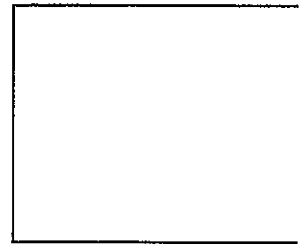
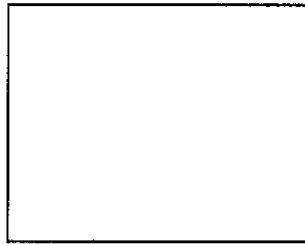
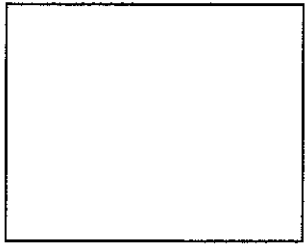
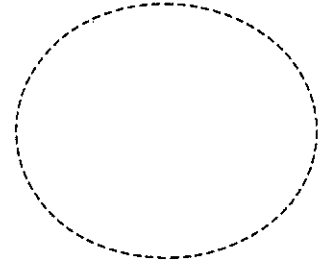
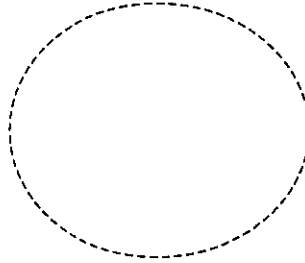
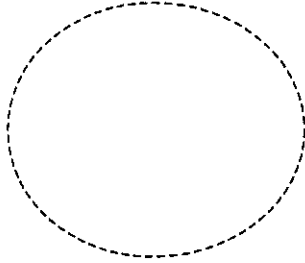
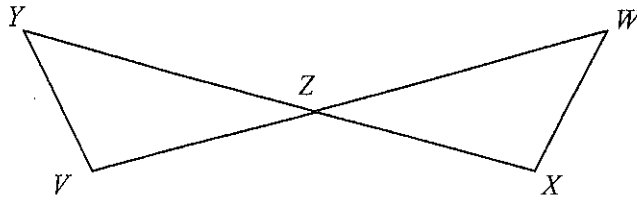


Flow C

Flow Chart Proofs #1 -- 5
Proof #1

Given: $\overline{YZ} \cong \overline{WZ}$
 $\overline{ZV} \cong \overline{ZX}$

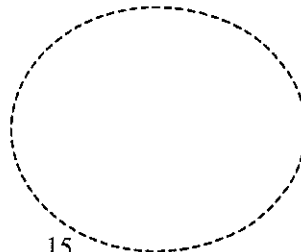
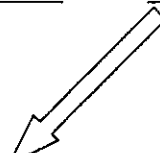
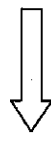
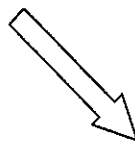
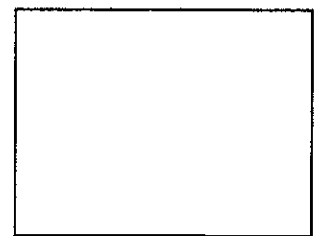
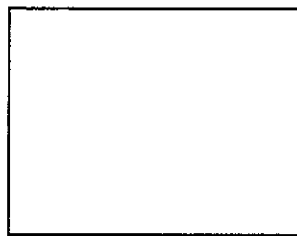
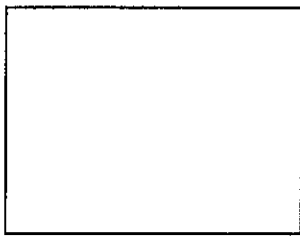
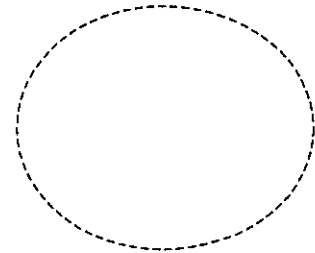
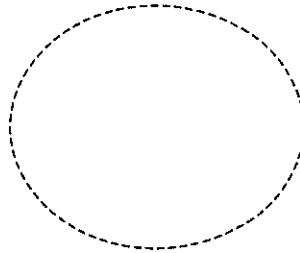
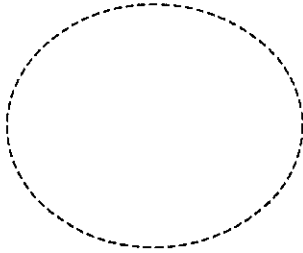
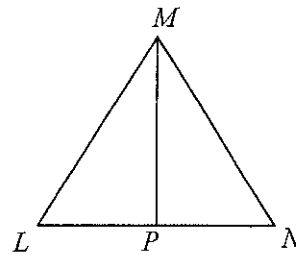
Prove: $\square VYZ \cong \square XWZ$



Proof #2

Given: $\angle MPL$ and $\angle MPN$ are right angles
 $\overline{LP} \cong \overline{NP}$

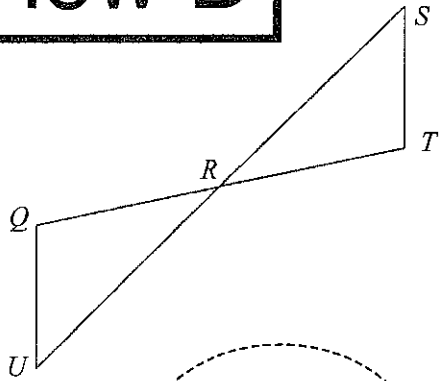
Prove: $\triangle LMP \cong \triangle NMP$



Flow D

Proof #4

Given: $\overline{QU} \parallel \overline{TS}$, R is the midpoint of \overline{QT}
Prove: $\triangle RQU \cong \triangle RTS$



A flowchart for a proof. It starts with three dashed circles, each with a downward arrow pointing to a solid rectangle. From these three rectangles, three arrows (two slanted, one straight) point to a single solid rectangle. Below this rectangle is a dashed circle with a downward arrow pointing to another dashed circle.

Proof #7

Given: $\angle CBD \cong \angle ABD$
 $\angle C \cong \angle A$

Prove: $\angle CDB \cong \angle ADB$ using triangle congruence

