

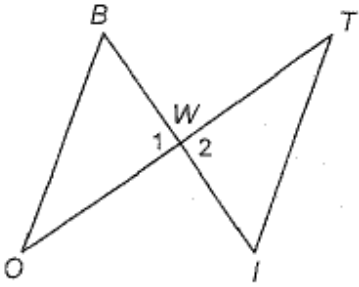
4.7 - 4.8 worksheet

Name: _____

Complete the proofs below.

Given: $\angle O \cong \angle T$
 W is the midpoint
of OT

Prove: $\angle B \cong \angle I$

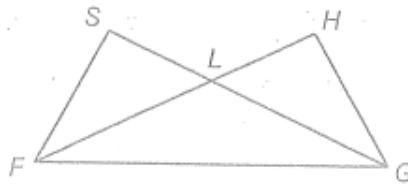


Conclusions

Justifications

Given: $\angle SFG \cong \angle HGF$
 $FS \cong GH$

Prove: $FH \cong GS$



Hint: Look for two triangles that overlap and share a part.

Conclusions

Justifications

4.7 - 4.8 worksheet

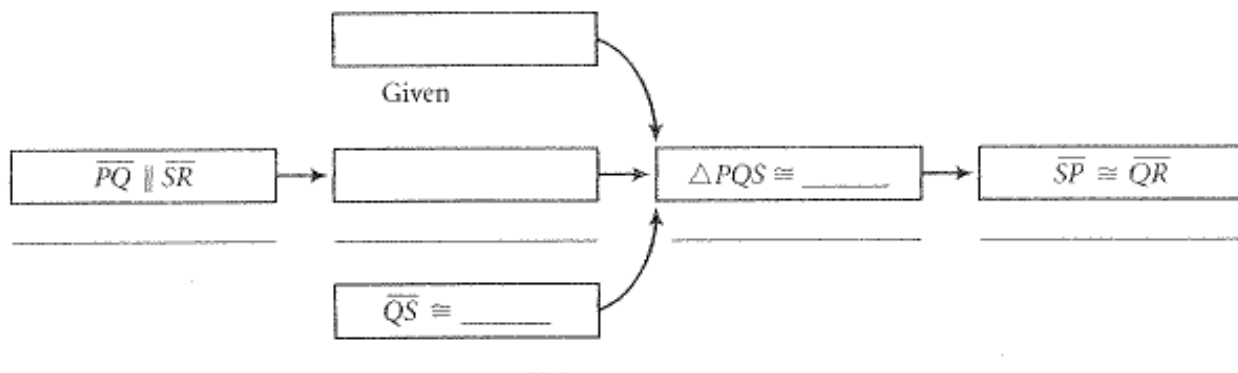
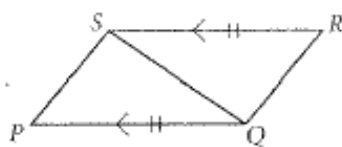
Name: _____

Complete the flowchart for each proof.

Given: $\overline{PQ} \parallel \overline{SR}$ and $\overline{PQ} \cong \overline{SR}$

Show: $\overline{SP} \cong \overline{QR}$

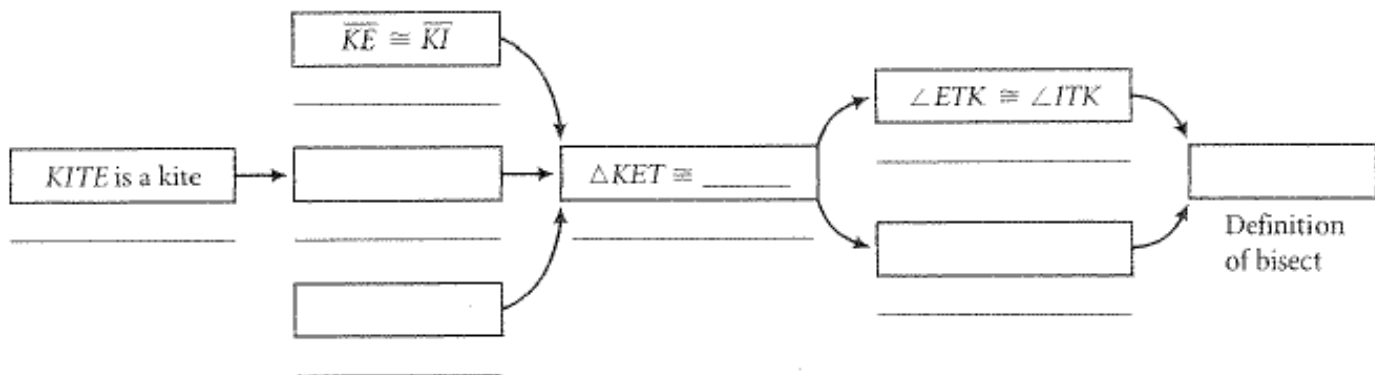
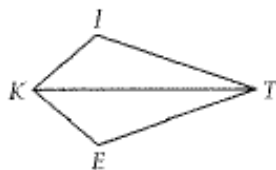
Flowchart Proof



Given: Kite $KITE$ with $\overline{KE} \cong \overline{KI}$

Show: \overline{KT} bisects $\angle EKI$ and $\angle ETI$

Flowchart Proof



In Exercises 1–3, $\triangle ABC$ is isosceles with $\overline{AC} \cong \overline{BC}$

1. Perimeter $\triangle ABC = 48$

$AC = 18$

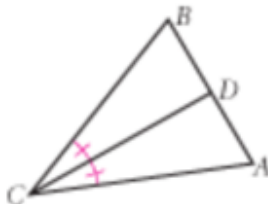
$AD = \underline{\hspace{1cm}}$



2. $m\angle ABC = 72^\circ$

$m\angle ADC = \underline{\hspace{1cm}}$

$m\angle ACD = \underline{\hspace{1cm}}$



3. $m\angle CAB = 45^\circ$

$m\angle ACD = \underline{\hspace{1cm}}$

