

Geometry: Please clear your desk except for...

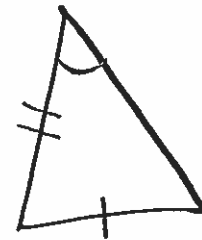
1. Assignments #30
2. SNB - Complete p. 132 Self-Test 1 #1-5

p. 132 Self-Test 1 #1-5

① $\angle P \cong \angle T$ $\{ \angle PCTC \}$

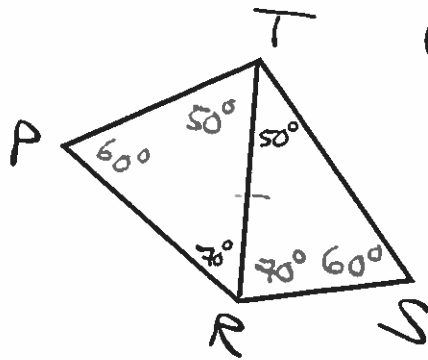
② $\overline{KO} \cong \overline{MA}$
 $\overline{OP} \cong \overline{AT}$ $\{ \angle PCTC \}$
 $\overline{KP} \cong \overline{MT}$

③ ① $\overline{JK} \cong \overline{JK}$ $\{ \text{Ref. Prop.} \cong \}$
 ② $\triangle JXK \cong \triangle JYK$ $\{ \text{SAS} \cong \text{Post} \}$



④ ① $\angle 1 \cong \angle 2$ $\{ \text{Vert. } \angle \text{ Thm} \}$
 ② Not enough Info $\{ \text{The } \angle \text{ is not included} \}$

#5



① $m\angle TRP = 70^\circ$
 $m\angle RTS = 50^\circ$ [Assum. Thm]

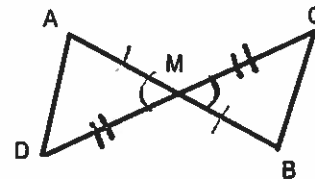
② $\overline{TR} \cong \overline{TR}$ [Ref. Prop. \cong]

③ $\angle PTR \cong \angle STR$ [Def. of \cong]
 $\angle PRT \cong \angle TRS$ [\cong \angle S]

④ $\triangle RST \cong \triangle RPT$ [ASA \cong Post]

Using Congruent Triangles Ex 1:

Given: \overline{AB} and \overline{CD} bisect each other.



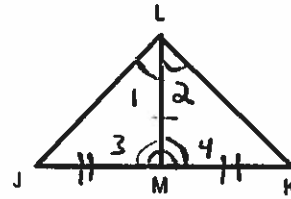
Prove: $AD \parallel BC$

Statements	Reasons
1 \overline{AB} and \overline{CD} bisect each other.	Given
2 M is the midpoint of \overline{AB} and \overline{DC}	Def. of seg. bisector
3 $\overline{AM} \cong \overline{MB}$, $\overline{CM} \cong \overline{MD}$	Def. of midpt.
4 $\angle AMD \cong \angle CMB$	Vert. \angle s Thm
5 $\triangle AMD \cong \triangle BMC$	SAS \cong Post
6 $\angle A \cong \angle B$	CPCTC
7 $\overline{AD} \parallel \overline{BC}$	Alt. Int. \angle s Converse

Using Congruent Triangles Ex 2:

Given: $\overline{LM} \perp \overline{JK}$ and \overline{LM} bisects $\angle JLK$

Prove: M is the midpoint of \overline{JK}



Statements	Reasons
1 $\overline{LM} \perp \overline{JK}$ and \overline{LM} bisects $\angle JLK$	Given
2 $\angle 1 \cong \angle 2$	Def. of \angle bisector
3 $\angle 3 \cong \angle 4$	\perp Lines form \cong adj \angle s
4 $\overline{LM} \cong \overline{LM}$	Reflexive Prop. of \cong
5 $\triangle JLM \cong \triangle KLM$	ASA \cong Post
6 $\overline{JM} \cong \overline{KM}$	C.P.C.T.C
7 M is the midpoint of \overline{JK}	Def. of Midpt

Assignment #31

Part I: p. 129 CE #1-5 (2-column proofs)

Part II: p. 130-131 WE #1-8

Update your Chapter 4 Study Guide!