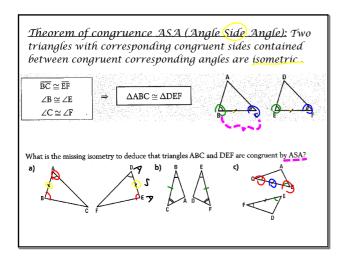


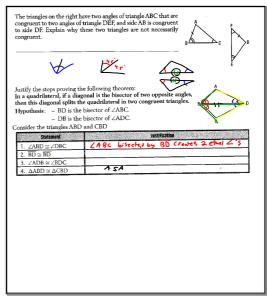
The triangles on the right have two sides of triangle ABC that are congruent to two sides of triangle DEF, and angle C is congruent to angle F. Explain why these two triangles are not necessarily Two segments AB and CD bisect each other at point M. Justify the statements which prove that triangles AMC and BMD are congruent. Hypothesis: – M is the mid-point of \overline{AB} .

– M is the mid-point of \overline{CD} . ∠AMC ≅ ∠BMD MIPRIAX 2. $\overline{MA} \cong \overline{MB}$ rid Point SAS 3. MC ≅ MD 4. $\triangle AMC \cong \triangle BMD$

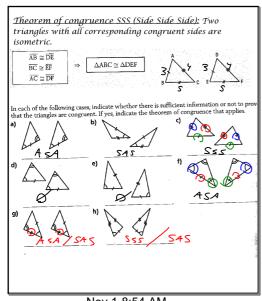
Nov 1-9:09 AM



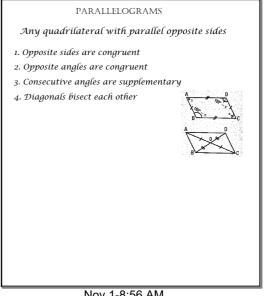
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Nov 1-8:56 AM

11. Justify the steps proving the following theorem: In a circle, two congruent chords subtend two congruent central angles.	
Hypothesis: $-\overline{AB} \cong \overline{CD}$	
Consider the triangles A0B and C0D.	
Statement	Instification /
$1. \overline{OA} \cong \overline{OB} \cong \overline{OC} \cong \overline{OD}$	
2. AB ≅ CD	
 ΔA0B ≅ ΔC0D 	
 ∠A0B ≅ ∠C0D 	

Nov 1-9:17 AM