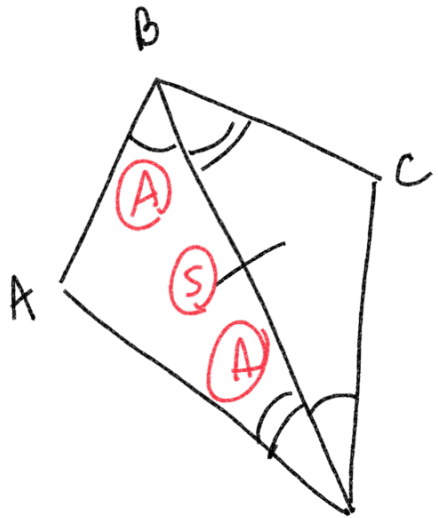


W-G Geometry Week 20 2/15



Given

$$\left. \begin{aligned} \angle ABD &\cong \angle CDB \\ \angle ADB &\cong \angle CBD \end{aligned} \right\}$$

Corresponding  
Parts of  
Congruent  
Triangles are  
Congruent

Prove:  $\overline{CD} \cong \overline{AB}$

Statement

Reason

$\angle ABD \cong \angle CDB$	Given
$\angle ADB \cong \angle CBD$	Given

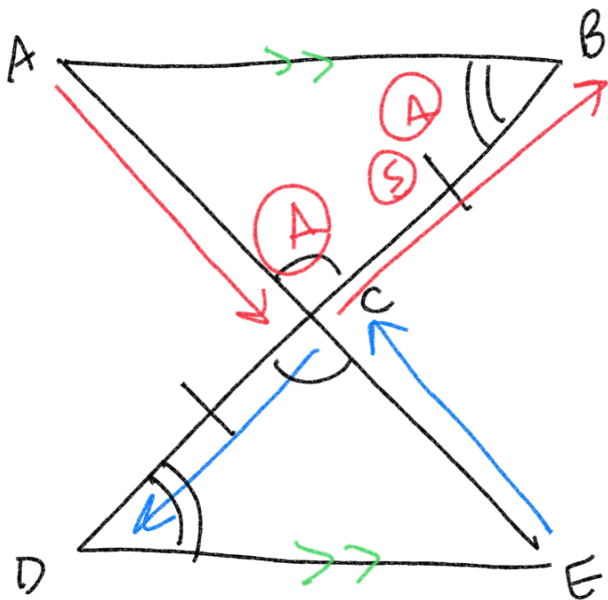
$$\overline{BD} \cong \overline{DB}$$

Reflexive  
Property

$$\triangle ABD \cong \triangle CBD$$

ASA

$\overline{CD} \cong \overline{AB}$	CPCTC
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Given  $\overline{AB} \parallel \overline{DE}$  parallel

Given  $\overline{BC} \cong \overline{DC}$

Prove  $\overline{AB} \cong \overline{ED}$

Statement

$\overline{AB} \parallel \overline{DE}$

$\overline{BC} \cong \overline{DC}$

$\angle ACB \cong \angle ECD$

$\angle ABC \cong \angle EDC$

$\triangle ABC \cong \triangle EDC$

$\overline{AB} \cong \overline{ED}$

Reason

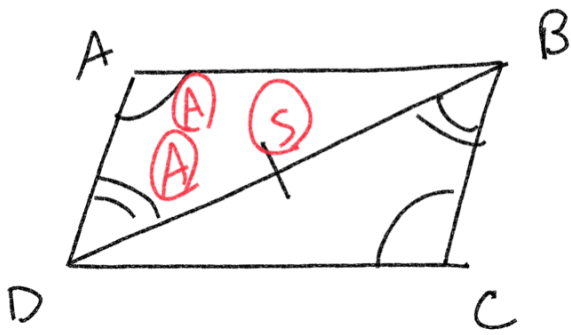
Given

Given

Vertical Angles  
Alt. Interior Angles

ASA

CPCTC



Given

$$\angle BAD \cong \angle DCB$$

$$\angle ADB \cong \angle CBD$$

Prove:  $\overline{AD} \cong \overline{CB}$

Statement

$$\angle BAD \cong \angle DCB$$

$$\angle ADB \cong \angle CBD$$

$$\overline{DB} \cong \overline{BD}$$

$$\triangle DCB \cong \triangle BAD$$

$$\overline{AD} \cong \overline{CB}$$

Reason

Given

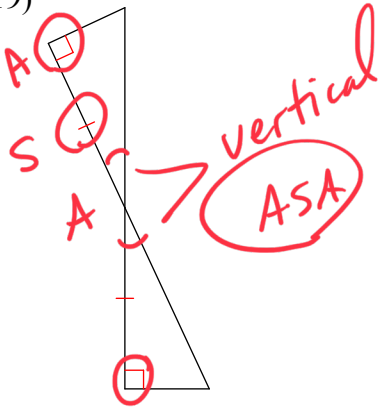
Given

Reflexive Property

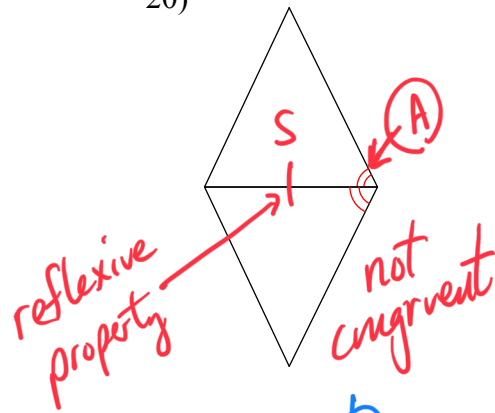
AAS

CPCTC

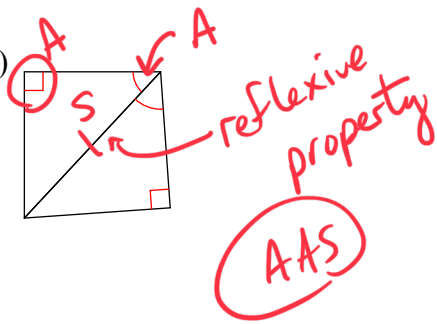
19)



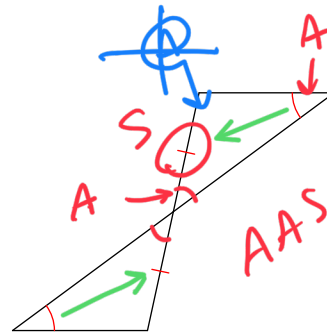
20)



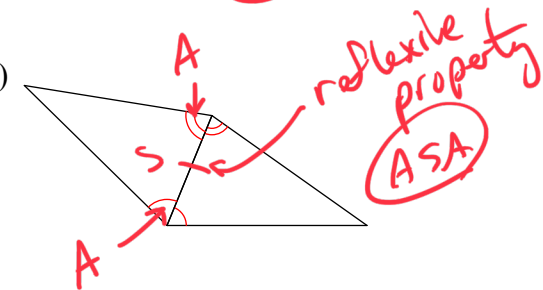
21)



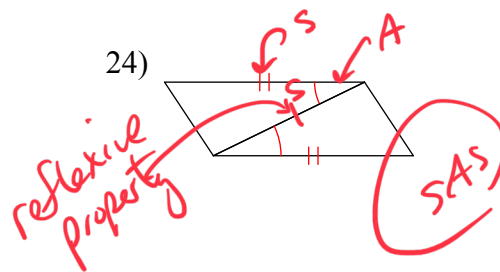
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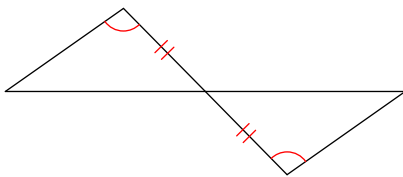
23)



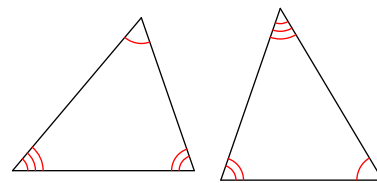
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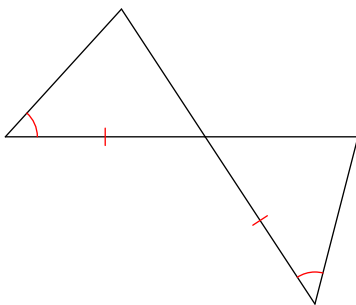
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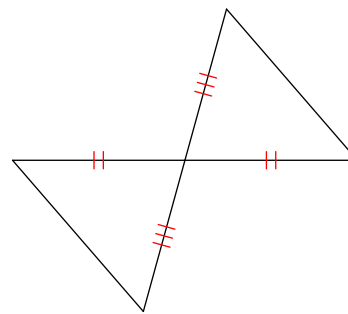
26)



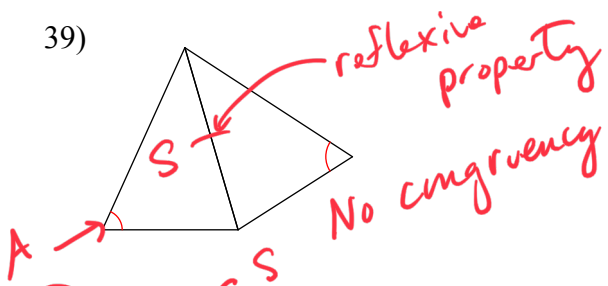
27)



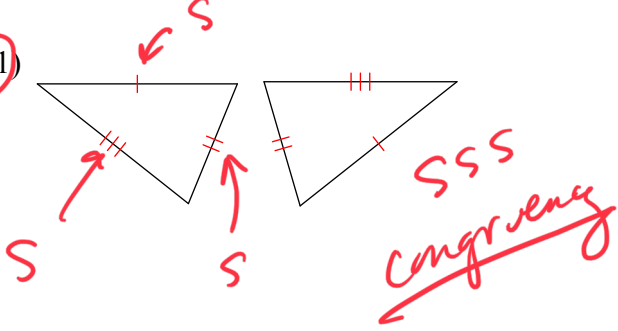
28)



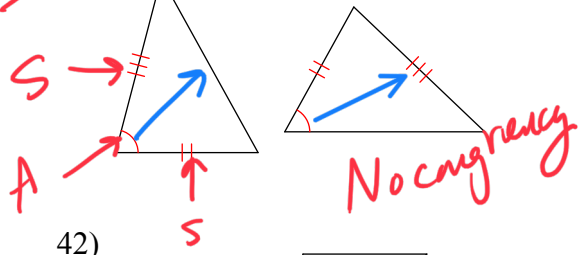
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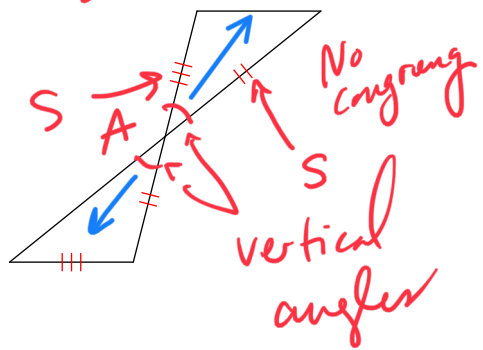
41)



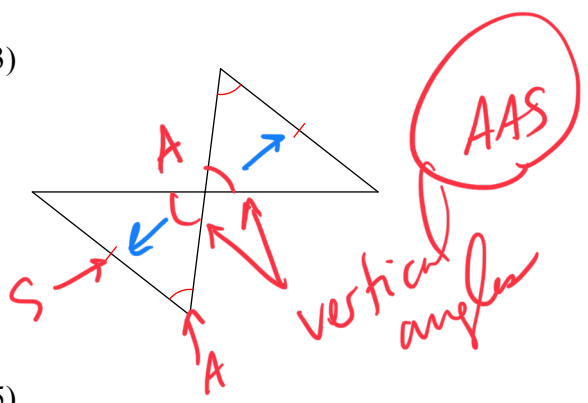
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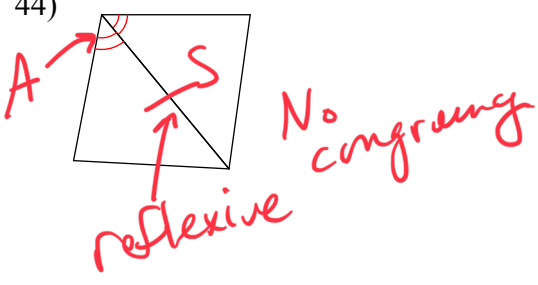
42)



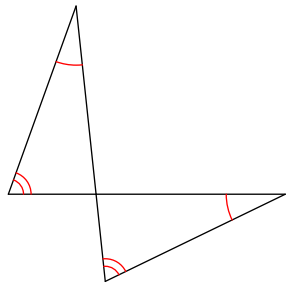
43)



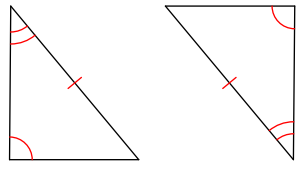
44)



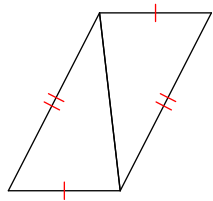
45)



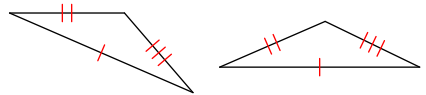
46)



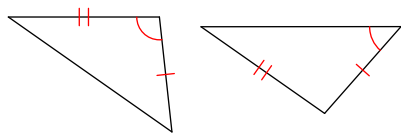
47)



48)



49)



50)

