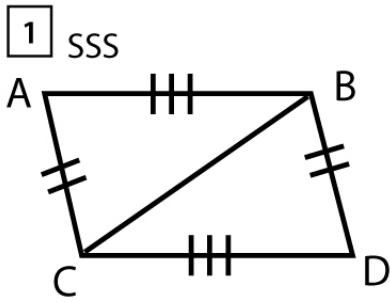


Name : _____

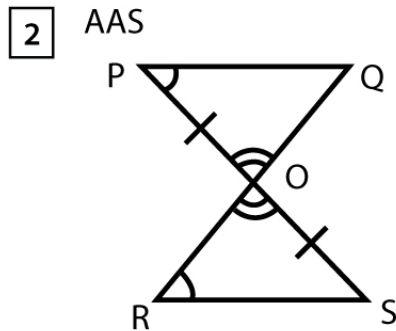
Score : _____ Date : _____

Congruent Triangles Worksheet

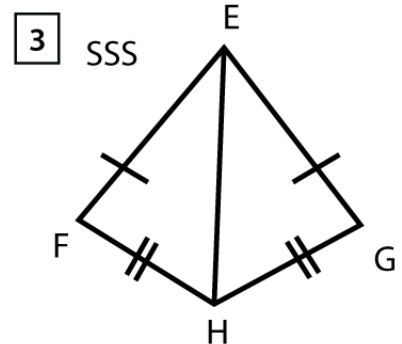
Using the given postulate, state which parts of a pair of triangles are congruent



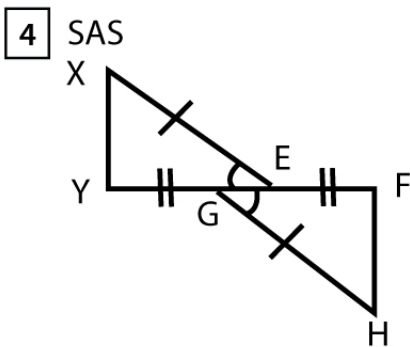
_____ \cong _____



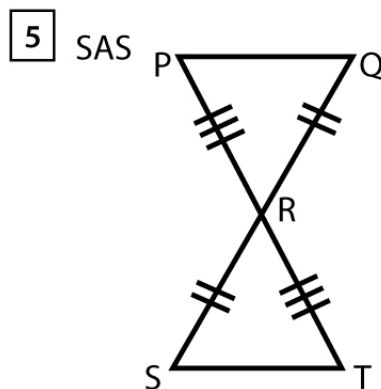
_____ \cong _____



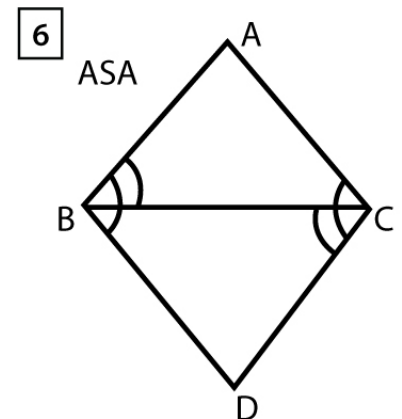
_____ \cong _____



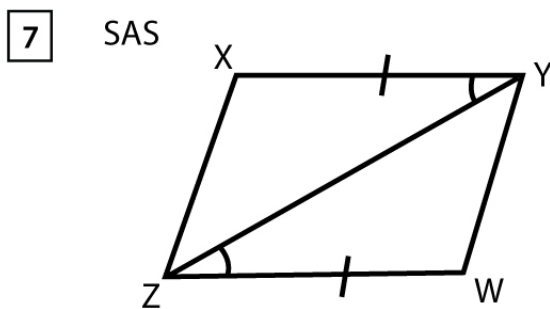
_____ \cong _____



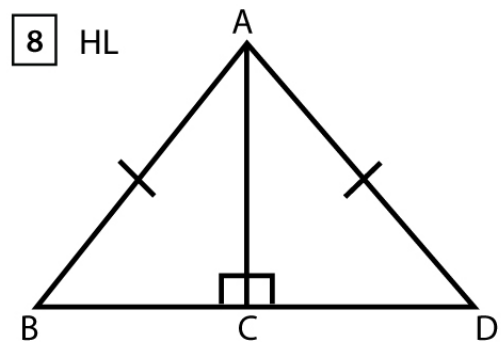
_____ \cong _____



_____ \cong _____



_____ \cong _____



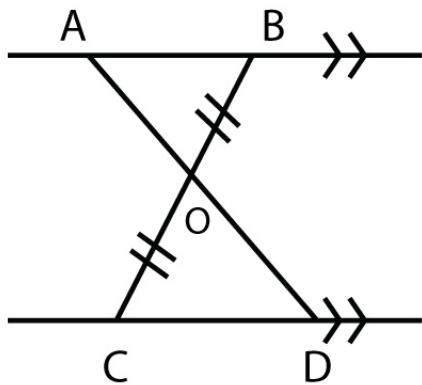
_____ \cong _____

Name :

Score : Date :

Parallel lines and Congruent Triangles Worksheet

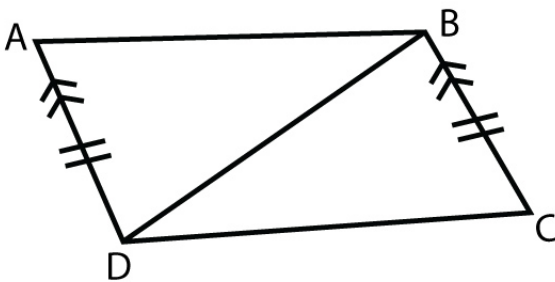
1 Prove which of the following triangles are congruent by filling in the missing blanks



Given $\overline{CO} \cong \overline{BO}$ and $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$

	Statements	Reasons
1.	$\overline{CO} \cong \overline{BO}$	
2.	$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$	
3.		
4.		
5.	$\triangle ABO \cong \triangle DCO$	

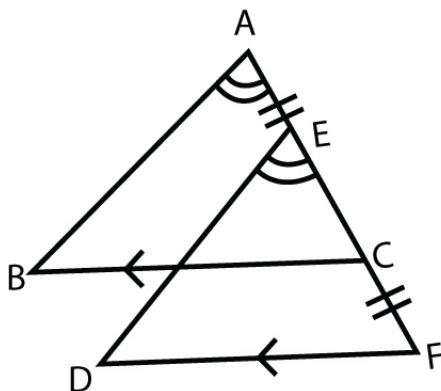
2



Given $AD \cong CB$ and $\overleftrightarrow{AD} \parallel \overleftrightarrow{CB}$

	Statements	Reasons
1.	$\overline{AD} \cong \overline{CB}$	
2.	$\overleftrightarrow{AD} \parallel \overleftrightarrow{CB}$	
3.	$\angle ADB \cong \angle CBD$	
4.		
5.	$\triangle DAB \cong \triangle BCD$	

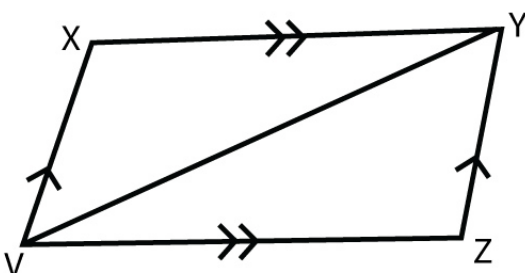
3



Given $AE \cong CF$, $\angle BAC \cong \angle DEF$ and $\overleftrightarrow{BC} \parallel \overleftrightarrow{DF}$

	Statements	Reasons
1.	$AE \cong CF$	
2.	$\overleftrightarrow{BC} \parallel \overleftrightarrow{DF}$	
3.	$\angle BAC \cong \angle DEF$	
4.		
5.	$\triangle BAC \cong \triangle DEF$	

4



Given $\overleftrightarrow{XY} \parallel \overleftrightarrow{ZV}$ and $\overleftrightarrow{XV} \parallel \overleftrightarrow{YZ}$

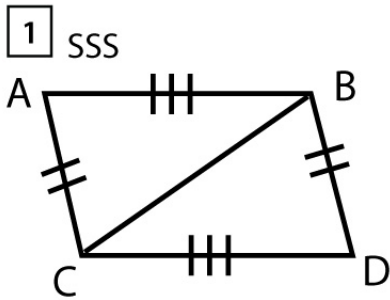
	Statements	Reasons
1.	$\overleftrightarrow{XY} \parallel \overleftrightarrow{ZV}$	
2.	$\overleftrightarrow{XV} \parallel \overleftrightarrow{YZ}$	
3.		
4.		
5.	$\triangle XYV \cong \triangle ZYV$	

Name : _____

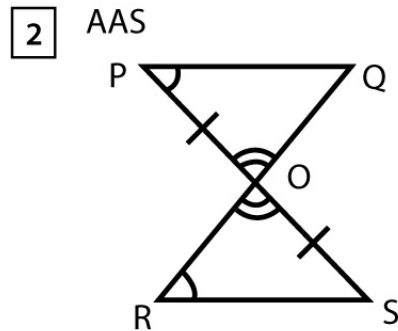
Score : _____ Date : _____

Congruent Triangles Worksheet

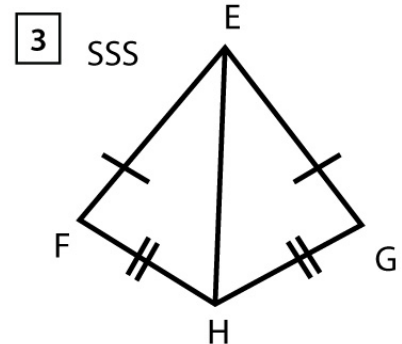
Answers



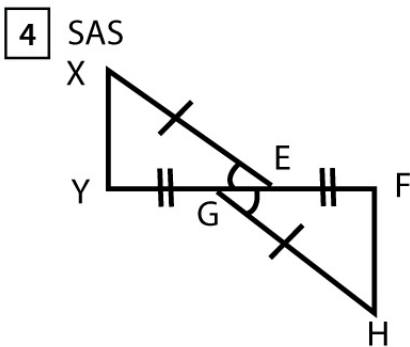
$AC = BD, AB = CD, CB = CB$
 $\triangle ACB \cong \triangle DBC$



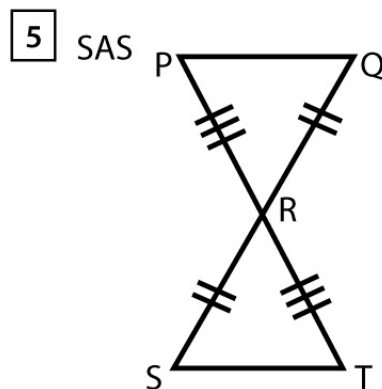
$\angle OPQ = \angle ORS, OP = OS, \angle POQ = \angle ROS$
 $\triangle POQ \cong \triangle ROS$



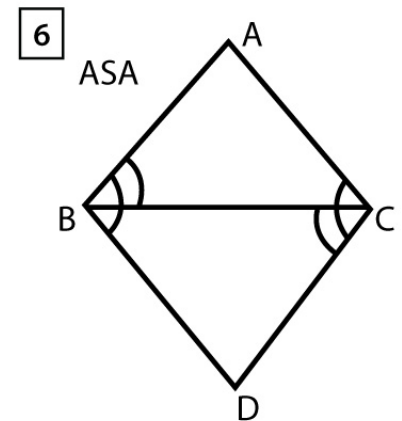
$EF = EG, FH = GH, EH = EH$
 $\triangle EFH \cong \triangle FGH$



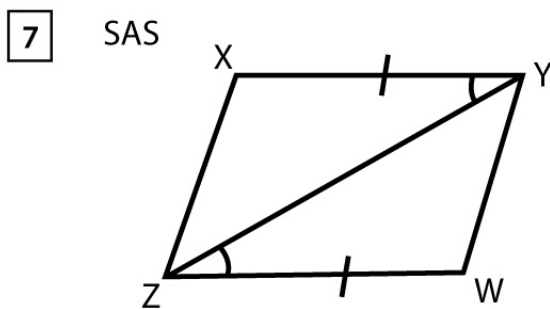
$\angle XYE = \angle HFG, \angle XEY = \angle HGF,$
 $XE = HF$
 $\triangle XYE \cong \triangle HFG$



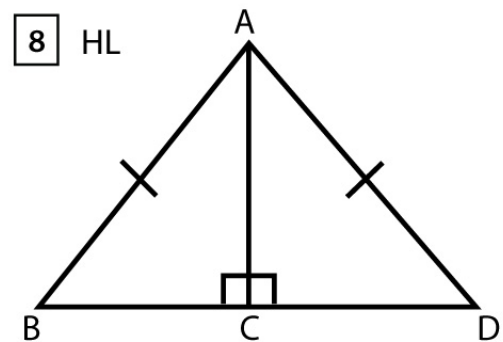
$SR = QR, \angle PRQ = \angle TRS,$
 $PR = TR$
 $\triangle PRQ \cong \triangle TRS$



$\angle ABC = \angle DCB, BC = BC,$
 $\angle DBC = \angle ACB$
 $\triangle ABC \cong \triangle DCB$



$XY = ZW, \angle XYZ = \angle WZY, ZY = ZY$
 $\triangle XZY \cong \triangle WZY$



$\angle ACB = \angle ACD = 90^\circ, AC = AC$
 $\triangle ABC \cong \triangle ADC$