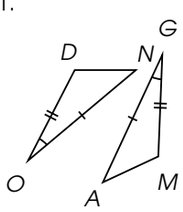
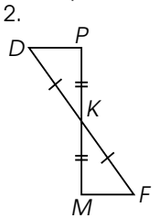
Lesson 3.4.1: SAS Triangle Congruence Postulate

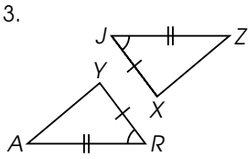
SAS (Side-Angle-Side) Congruence Postulate: If the two sides and an included angle of one triangle are congruent to the corresponding two sides and included angle of another triangle, then the two triangles are congruent.

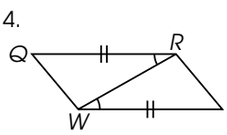
Practice Exercises 3.4.1

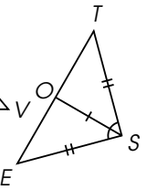
A. Show that each pair of triangles are congruent using the SAS triangle congruence postulate.

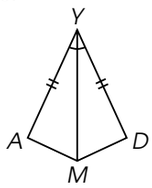
1. 

2. 

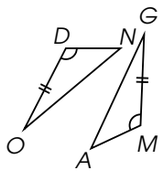
3. 

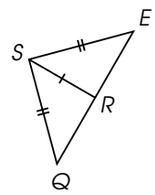
4. 

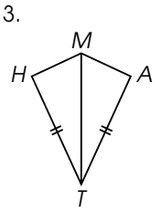
5. 

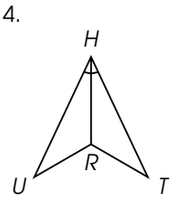
6. 

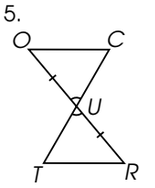
B. The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.

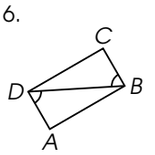
1. 

2. 

3. 

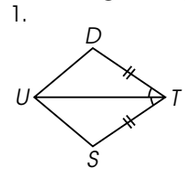
4. 

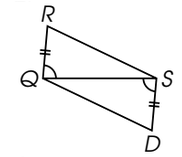
5. 

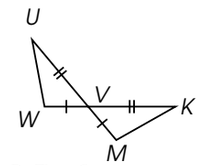
6. 

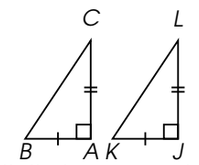
Activity 3.4.1

A. Show that each pair of triangles are congruent using the SAS triangle congruence postulate.

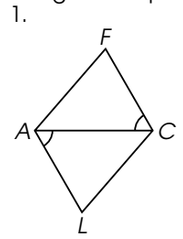
1. 

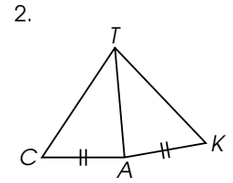
2. 

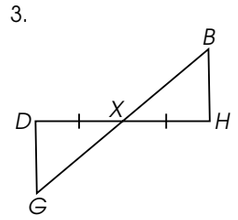
3. 

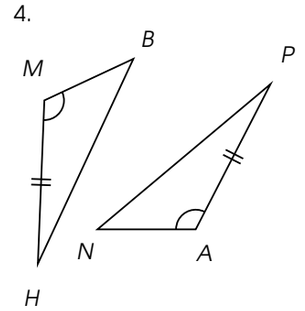
4. 

B. The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.

1. 

2. 

3. 

4. 

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Practice Exercises 3.4.1

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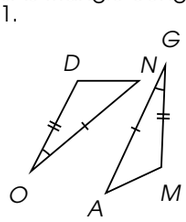
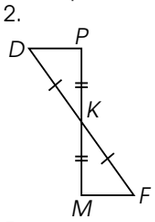
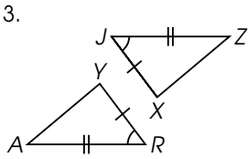
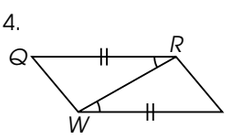
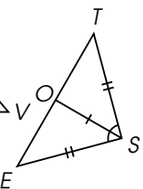
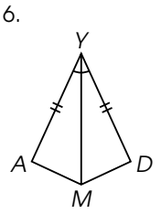
1. 

2. 

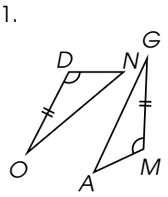
3. 

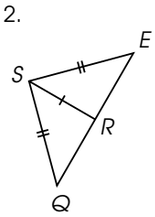
4. 

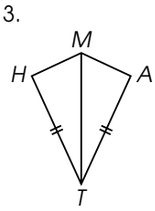
5. 

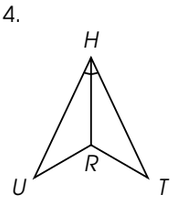
6. 

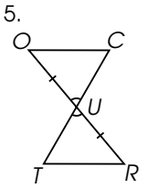
B. The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.

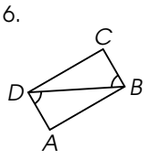
1. 

2. 

3. 

4. 

5. 

6. 

Activity 3.4.1

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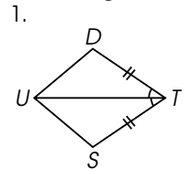
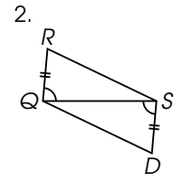
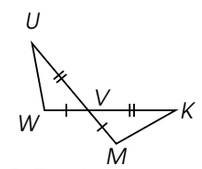
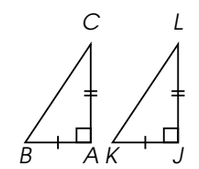
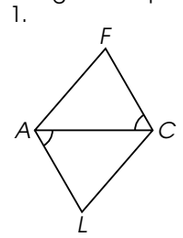
1. 

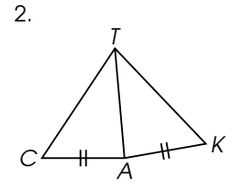
2. 

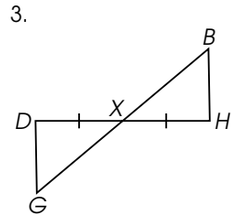
3. 

4. 

B. The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.

1. 

2. 

3. 

4.