

SAS Triangle Congruence Postulate

Jonathan R. Bacolod

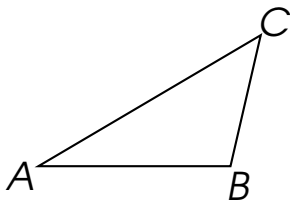
Sauyo High School

What are Included Angle and Included Side?

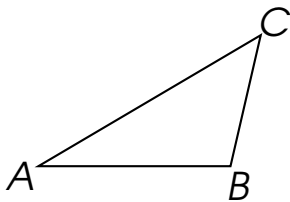
Included angle: the angle between two sides of a triangle

Included side: the side common to two angles of a triangle

What are Included Angle and Included Side?

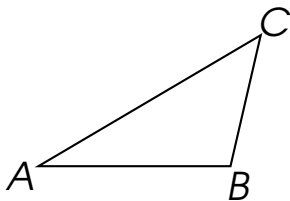


What are Included Angle and Included Side?



In $\triangle ABC$,

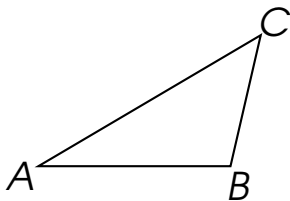
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is

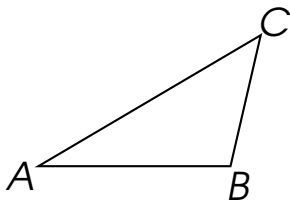
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is $\angle A$.

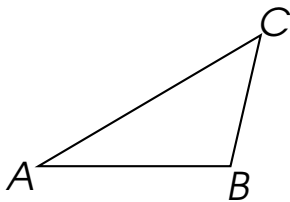
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is $\angle A$.
2. The included angle between \overline{AB} and \overline{BC} is

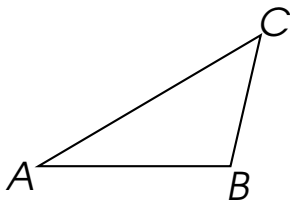
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is $\angle A$.
2. The included angle between \overline{AB} and \overline{BC} is $\angle B$.

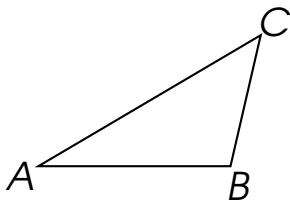
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is $\angle A$.
2. The included angle between \overline{AB} and \overline{BC} is $\angle B$.
3. The included angle between \overline{AC} and \overline{BC} is

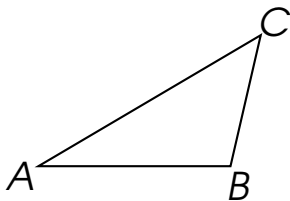
What are Included Angle and Included Side?



In $\triangle ABC$,

1. The included angle between \overline{AB} and \overline{AC} is $\angle A$.
2. The included angle between \overline{AB} and \overline{BC} is $\angle B$.
3. The included angle between \overline{AC} and \overline{BC} is $\angle C$.

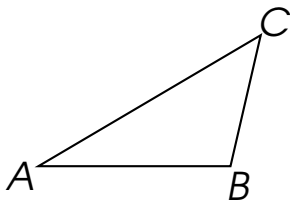
What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is

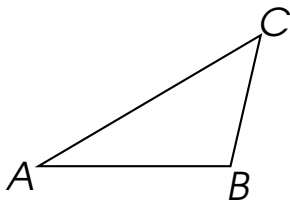
What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is \overline{AB} .

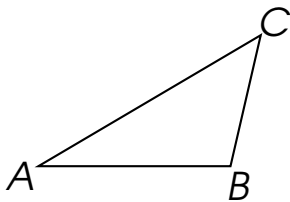
What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is \overline{AB} .
5. The included side between $\angle A$ and $\angle C$ is

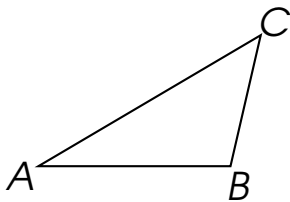
What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is \overline{AB} .
5. The included side between $\angle A$ and $\angle C$ is \overline{AC} .

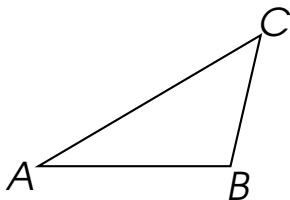
What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is \overline{AB} .
5. The included side between $\angle A$ and $\angle C$ is \overline{AC} .
6. The included side between $\angle B$ and $\angle C$ is

What are Included Angle and Included Side?



In $\triangle ABC$,

4. The included side between $\angle A$ and $\angle B$ is \overline{AB} .
5. The included side between $\angle A$ and $\angle C$ is \overline{AC} .
6. The included side between $\angle B$ and $\angle C$ is \overline{BC} .

Example 1

In $\triangle NOD$,

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO} .

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO} .
5. The included side between $\angle N$ and $\angle D$ is

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO} .
5. The included side between $\angle N$ and $\angle D$ is \overline{ND} .

Example 1

In $\triangle NOD$,

1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO} .
5. The included side between $\angle N$ and $\angle D$ is \overline{ND} .
6. The included side between $\angle O$ and $\angle D$ is

Example 1

In $\triangle NOD$,

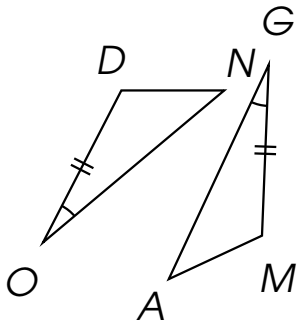
1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO} .
5. The included side between $\angle N$ and $\angle D$ is \overline{ND} .
6. The included side between $\angle O$ and $\angle D$ is \overline{OD} .

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 the included angle of another triangle, then the triangles are congruent.

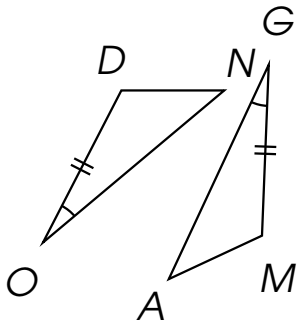
Example 2

Complete the statements using the SAS congruence postulate.



Example 2

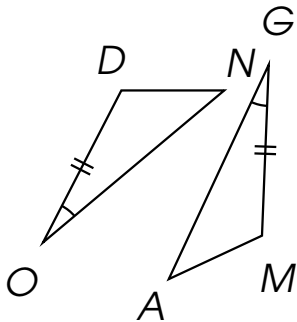
Complete the statements using the SAS congruence postulate.



$$\overline{DO} \cong$$

Example 2

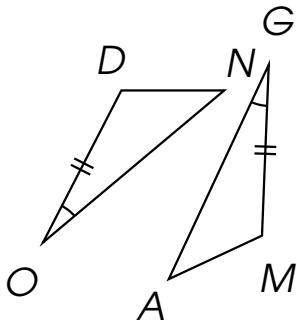
Complete the statements using the SAS congruence postulate.



$$\overline{DO} \cong \overline{MG}$$

Example 2

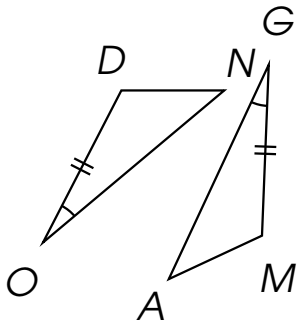
Complete the statements using the SAS congruence postulate.



$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong$$

Example 2

Complete the statements using the SAS congruence postulate.

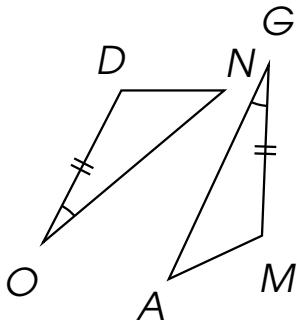


$$\overline{DO} \cong \overline{MG}$$

$$\angle O \cong \angle G$$

Example 2

Complete the statements using the SAS congruence postulate.



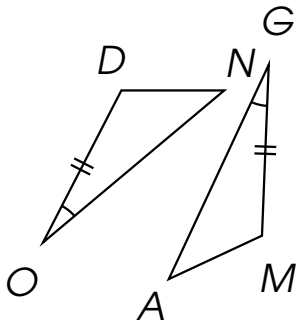
$$\overline{DO} \cong \overline{MG}$$

$$\angle O \cong \angle G$$

$$\overline{NO} \cong$$

Example 2

Complete the statements using the SAS congruence postulate.

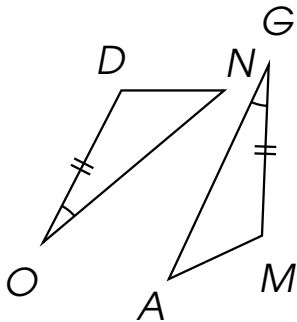


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

$$\overline{NO} \cong \overline{AG}$$

Example 2

Complete the statements using the SAS congruence postulate.

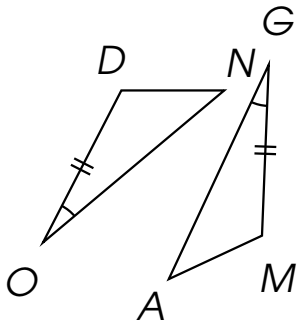


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

$$\overline{NO} \cong \overline{AG}$$
$$\triangle DON \cong$$

Example 2

Complete the statements using the SAS congruence postulate.

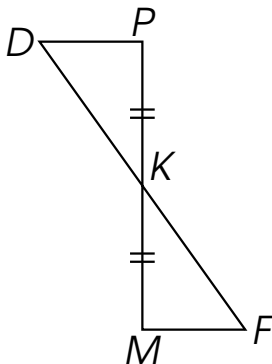


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

$$\overline{NO} \cong \overline{AG}$$
$$\triangle DON \cong \triangle MGA$$

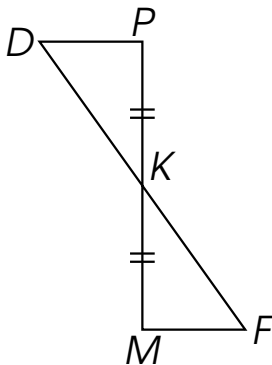
Example 3

Complete the statements using the SAS congruence postulate.



Example 3

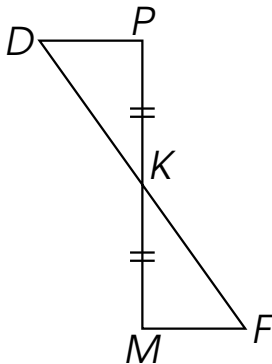
Complete the statements using the SAS congruence postulate.



$$\overline{PK} \cong$$

Example 3

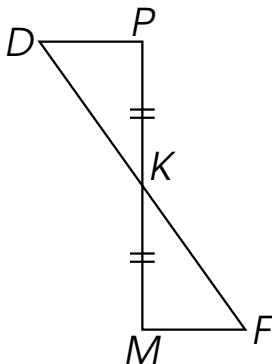
Complete the statements using the SAS congruence postulate.



$$\overline{PK} \cong \overline{MK}$$

Example 3

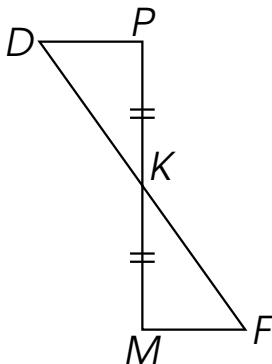
Complete the statements using the SAS congruence postulate.



$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong$$

Example 3

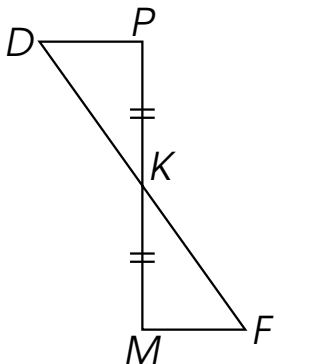
Complete the statements using the SAS congruence postulate.



$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

Example 3

Complete the statements using the SAS congruence postulate.

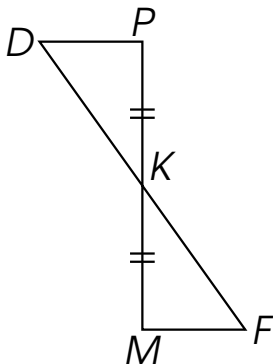


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\overline{DK} \cong$$

Example 3

Complete the statements using the SAS congruence postulate.

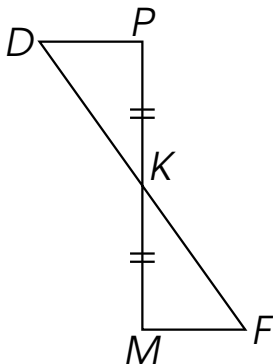


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\overline{DK} \cong \overline{FK}$$

Example 3

Complete the statements using the SAS congruence postulate.

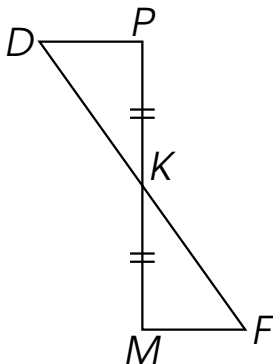


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\overline{DK} \cong \overline{FK}$$
$$\triangle DKP \cong$$

Example 3

Complete the statements using the SAS congruence postulate.

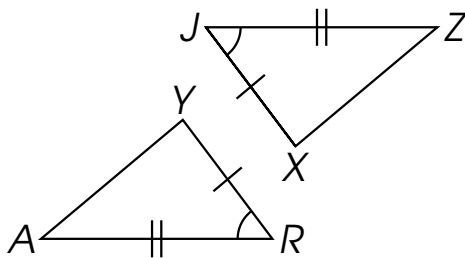


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\overline{DK} \cong \overline{FK}$$
$$\triangle DKP \cong \triangle FKM$$

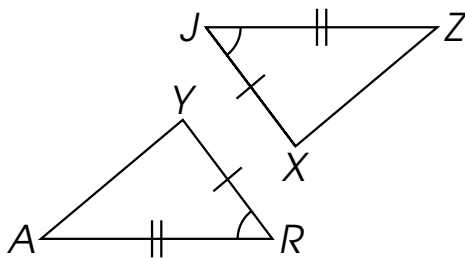
Example 4

Complete the statements using the SAS congruence postulate.



Example 4

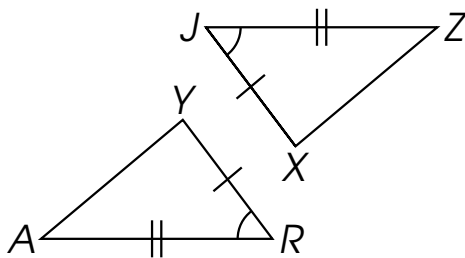
Complete the statements using the SAS congruence postulate.



$$\overline{YR} \cong$$

Example 4

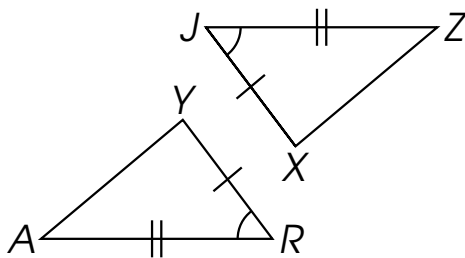
Complete the statements using the SAS congruence postulate.



$$\overline{YR} \cong \overline{XJ}$$

Example 4

Complete the statements using the SAS congruence postulate.

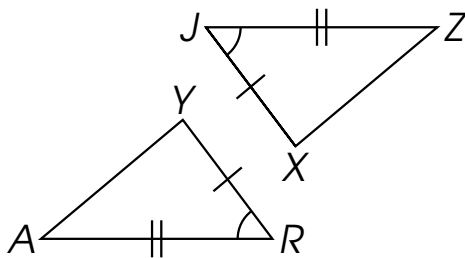


$$\overline{YR} \cong \overline{XJ}$$

$$\overline{AR} \cong$$

Example 4

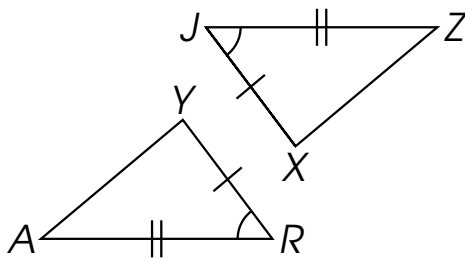
Complete the statements using the SAS congruence postulate.



$$\overline{YR} \cong \overline{XJ}$$
$$\overline{AR} \cong \overline{ZJ}$$

Example 4

Complete the statements using the SAS congruence postulate.

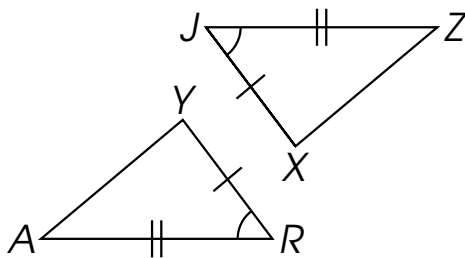


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

$$\angle R \cong$$

Example 4

Complete the statements using the SAS congruence postulate.

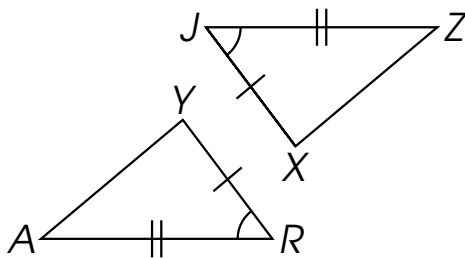


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

$$\angle R \cong \angle J$$

Example 4

Complete the statements using the SAS congruence postulate.

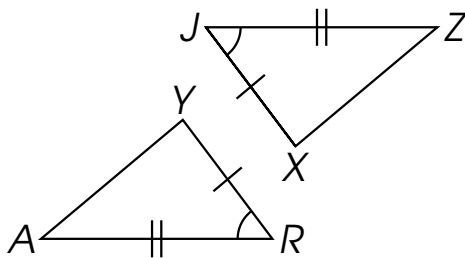


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{JZ}\end{aligned}$$

$$\begin{aligned}\angle R &\cong \angle J \\ \triangle AYR &\cong \triangle XJZ\end{aligned}$$

Example 4

Complete the statements using the SAS congruence postulate.

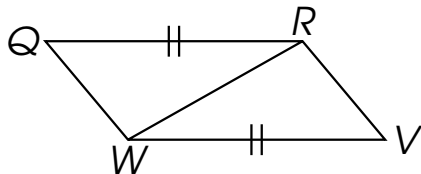


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

$$\begin{aligned}\angle R &\cong \angle J \\ \triangle AYR &\cong \triangle ZXJ\end{aligned}$$

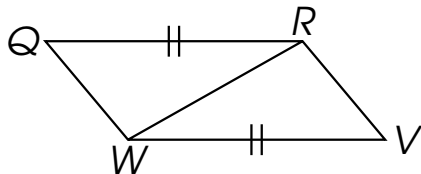
Example 5

Complete the statements using the SAS congruence postulate.



Example 5

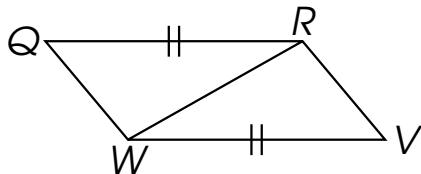
Complete the statements using the SAS congruence postulate.



$$\overline{RW} \cong$$

Example 5

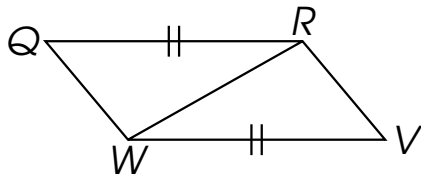
Complete the statements using the SAS congruence postulate.



$$\overline{RW} \cong \overline{WR}$$

Example 5

Complete the statements using the SAS congruence postulate.

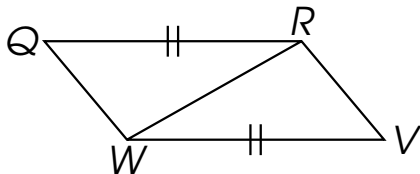


$$\overline{RW} \cong \overline{WR}$$

$$\overline{RQ} \cong$$

Example 5

Complete the statements using the SAS congruence postulate.

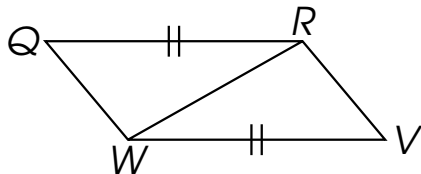


$$\overline{RW} \cong \overline{WR}$$

$$\overline{RQ} \cong \overline{WV}$$

Example 5

Complete the statements using the SAS congruence postulate.

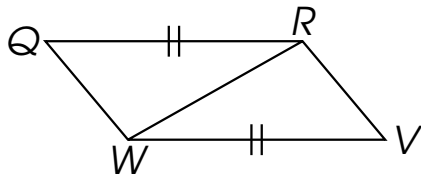


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \overline{RQ} &\cong \overline{WV}\end{aligned}$$

$$\angle QRW \cong$$

Example 5

Complete the statements using the SAS congruence postulate.

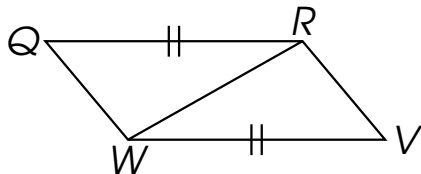


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \overline{RQ} &\cong \overline{WV}\end{aligned}$$

$$\angle QRW \cong \angle VWR$$

Example 5

Complete the statements using the SAS congruence postulate.

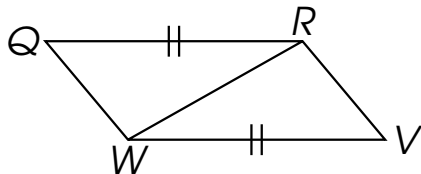


$$\overline{RW} \cong \overline{WR}$$
$$\overline{RQ} \cong \overline{WV}$$

$$\angle QRW \cong \angle VWR$$
$$\triangle QRW \cong$$

Example 5

Complete the statements using the SAS congruence postulate.

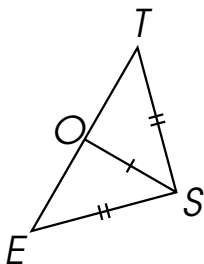


$$\overline{RW} \cong \overline{WR}$$
$$\overline{RQ} \cong \overline{WV}$$

$$\angle QRW \cong \angle VWR$$
$$\triangle QRW \cong \triangle VWR$$

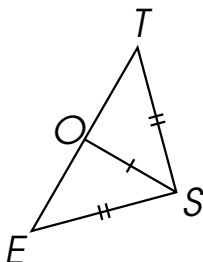
Example 6

Complete the statements using the SAS congruence postulate.



Example 6

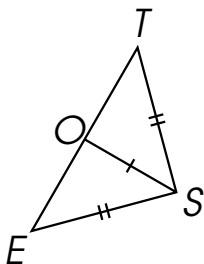
Complete the statements using the SAS congruence postulate.



$$\overline{OS} \cong$$

Example 6

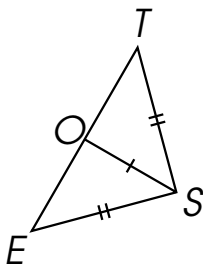
Complete the statements using the SAS congruence postulate.



$$\overline{OS} \cong \overline{OS}$$

Example 6

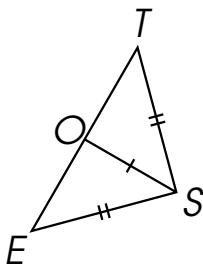
Complete the statements using the SAS congruence postulate.



$$\overline{OS} \cong \overline{OS}$$
$$\overline{TS} \cong$$

Example 6

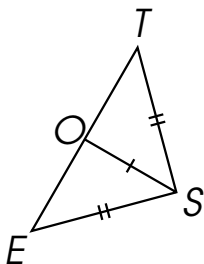
Complete the statements using the SAS congruence postulate.



$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

Example 6

Complete the statements using the SAS congruence postulate.

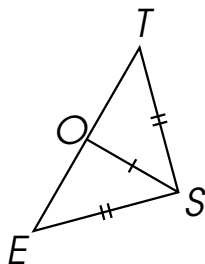


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

$$\angle TSO \cong$$

Example 6

Complete the statements using the SAS congruence postulate.

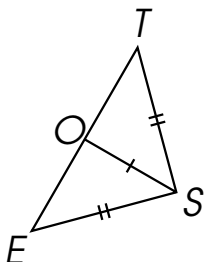


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

$$\angle TSO \cong \angle ESO$$

Example 6

Complete the statements using the SAS congruence postulate.

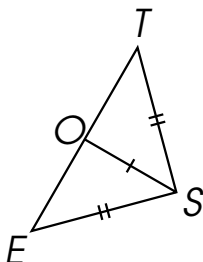


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

$$\begin{aligned}\angle TSO &\cong \angle ESO \\ \triangle TSO &\cong\end{aligned}$$

Example 6

Complete the statements using the SAS congruence postulate.

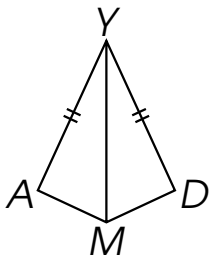


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

$$\begin{aligned}\angle TSO &\cong \angle ESO \\ \triangle TSO &\cong \triangle ESO\end{aligned}$$

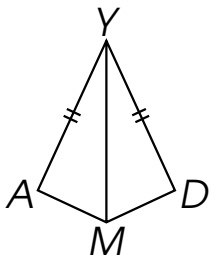
Example 7

Complete the statements using the SAS congruence postulate.



Example 7

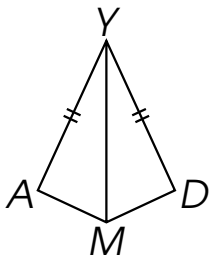
Complete the statements using the SAS congruence postulate.



$$\overline{YM} \cong$$

Example 7

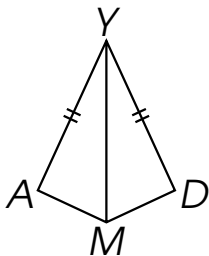
Complete the statements using the SAS congruence postulate.



$$\overline{YM} \cong \overline{YM}$$

Example 7

Complete the statements using the SAS congruence postulate.

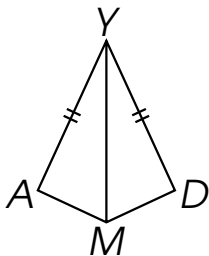


$$\overline{YM} \cong \overline{YM}$$

$$\overline{YA} \cong$$

Example 7

Complete the statements using the SAS congruence postulate.

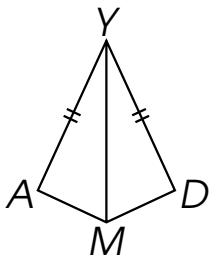


$$\overline{YM} \cong \overline{YM}$$

$$\overline{YA} \cong \overline{YD}$$

Example 7

Complete the statements using the SAS congruence postulate.



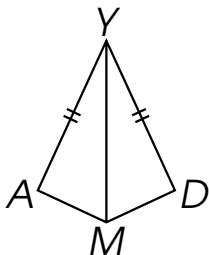
$$\overline{YM} \cong \overline{YM}$$

$$\overline{YA} \cong \overline{YD}$$

$$\angle AYM \cong$$

Example 7

Complete the statements using the SAS congruence postulate.



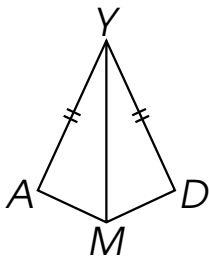
$$\overline{YM} \cong \overline{YM}$$

$$\overline{YA} \cong \overline{YD}$$

$$\angle AYM \cong \angle DYM$$

Example 7

Complete the statements using the SAS congruence postulate.



$$\overline{YM} \cong \overline{YM}$$

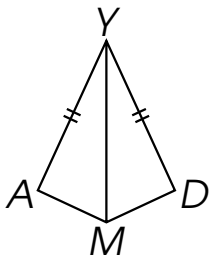
$$\overline{YA} \cong \overline{YD}$$

$$\angle AYM \cong \angle DYM$$

$$\triangle AYM \cong$$

Example 7

Complete the statements using the SAS congruence postulate.



$$\overline{YM} \cong \overline{YM}$$

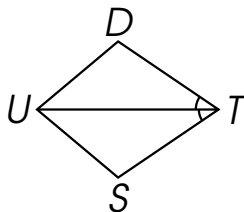
$$\overline{YA} \cong \overline{YD}$$

$$\angle AYM \cong \angle DYM$$

$$\triangle AYM \cong \triangle DYM$$

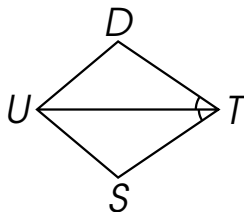
Example 8

Complete the statements using the SAS congruence postulate.



Example 8

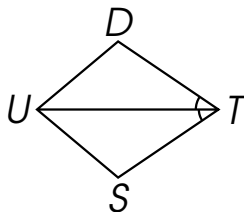
Complete the statements using the SAS congruence postulate.



$$\overline{UT} \cong$$

Example 8

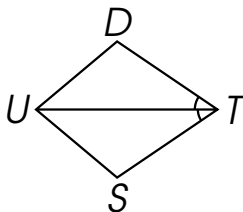
Complete the statements using the SAS congruence postulate.



$$\overline{UT} \cong \overline{UT}$$

Example 8

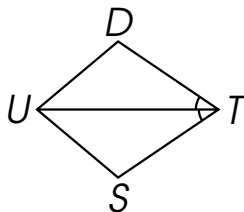
Complete the statements using the SAS congruence postulate.



$$\overline{UT} \cong \overline{UT}$$
$$\angle DTU \cong$$

Example 8

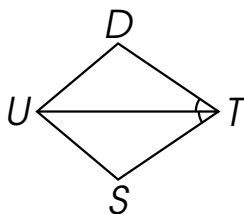
Complete the statements using the SAS congruence postulate.



$$\overline{UT} \cong \overline{UT}$$
$$\angle DTU \cong \angle STU$$

Example 8

Complete the statements using the SAS congruence postulate.

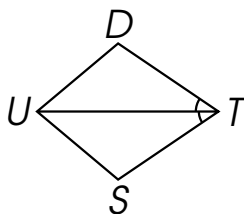


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\overline{DT} \cong$$

Example 8

Complete the statements using the SAS congruence postulate.

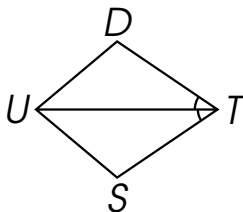


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\overline{DT} \cong \overline{ST}$$

Example 8

Complete the statements using the SAS congruence postulate.

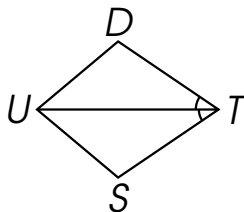


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\begin{aligned}\overline{DT} &\cong \overline{ST} \\ \triangle DTU &\cong\end{aligned}$$

Example 8

Complete the statements using the SAS congruence postulate.

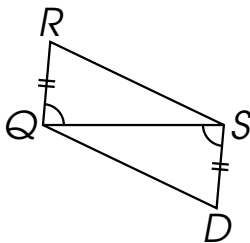


$$\overline{UT} \cong \overline{UT}$$
$$\angle DTU \cong \angle STU$$

$$\overline{DT} \cong \overline{ST}$$
$$\triangle DTU \cong \triangle STU$$

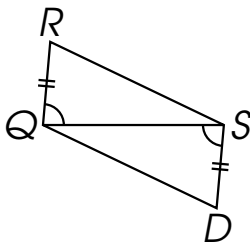
Example 9

Complete the statements using the SAS congruence postulate.



Example 9

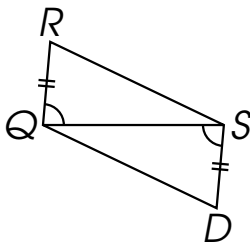
Complete the statements using the SAS congruence postulate.



$$\overline{QS} \cong$$

Example 9

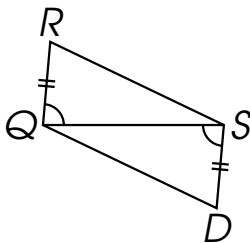
Complete the statements using the SAS congruence postulate.



$$\overline{QS} \cong \overline{SQ}$$

Example 9

Complete the statements using the SAS congruence postulate.

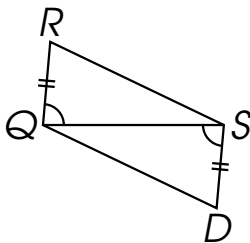


$$\overline{QS} \cong \overline{SQ}$$

$$\overline{QR} \cong$$

Example 9

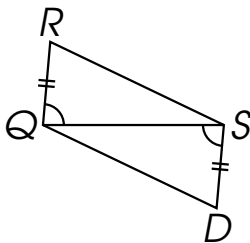
Complete the statements using the SAS congruence postulate.



$$\overline{QS} \cong \overline{SQ}$$
$$\overline{QR} \cong \overline{SD}$$

Example 9

Complete the statements using the SAS congruence postulate.

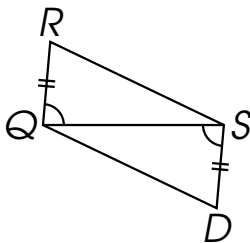


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

$$\angle RQS \cong$$

Example 9

Complete the statements using the SAS congruence postulate.

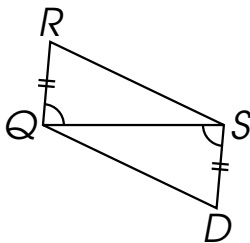


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

$$\angle RQS \cong \angle DSQ$$

Example 9

Complete the statements using the SAS congruence postulate.

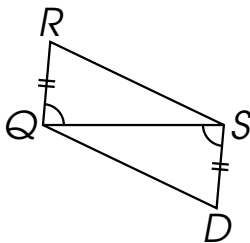


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

$$\begin{aligned}\angle RQS &\cong \angle DSQ \\ \triangle RQS &\cong\end{aligned}$$

Example 9

Complete the statements using the SAS congruence postulate.

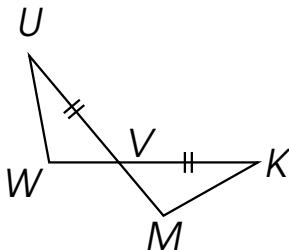


$$\overline{QS} \cong \overline{SQ}$$
$$\overline{QR} \cong \overline{SD}$$

$$\angle RQS \cong \angle DSQ$$
$$\triangle RQS \cong \triangle DSQ$$

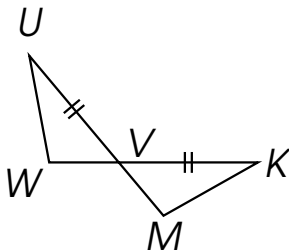
Example 10

Complete the statements using the SAS congruence postulate.



Example 10

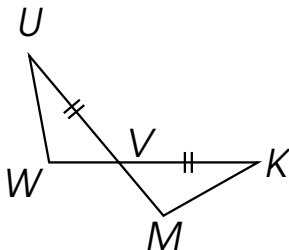
Complete the statements using the SAS congruence postulate.



$$\overline{UV} \cong$$

Example 10

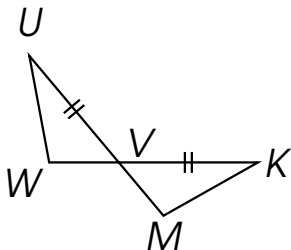
Complete the statements using the SAS congruence postulate.



$$\overline{UV} \cong \overline{KV}$$

Example 10

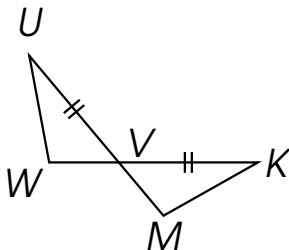
Complete the statements using the SAS congruence postulate.



$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong$$

Example 10

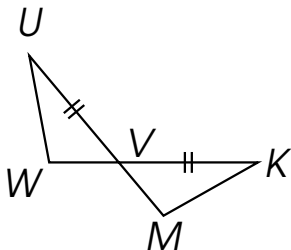
Complete the statements using the SAS congruence postulate.



$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong \angle KVM$$

Example 10

Complete the statements using the SAS congruence postulate.

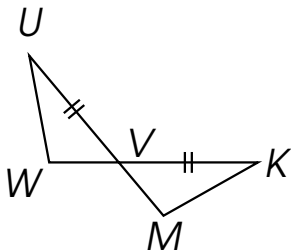


$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong \angle KVM$$

$$\overline{WV} \cong$$

Example 10

Complete the statements using the SAS congruence postulate.

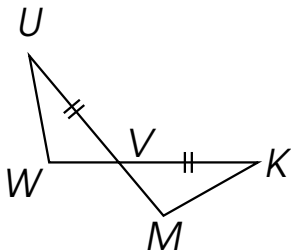


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\overline{WV} \cong \overline{MV}$$

Example 10

Complete the statements using the SAS congruence postulate.

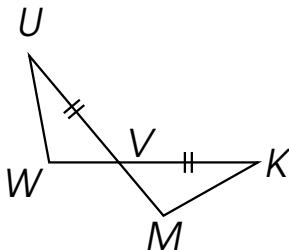


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\begin{aligned}\overline{WV} &\cong \overline{MV} \\ \triangle UVW &\cong\end{aligned}$$

Example 10

Complete the statements using the SAS congruence postulate.

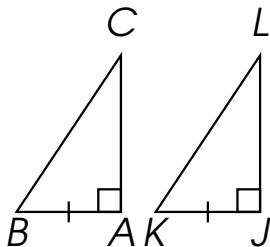


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\begin{aligned}\overline{WV} &\cong \overline{MV} \\ \triangle UVW &\cong \triangle KVM\end{aligned}$$

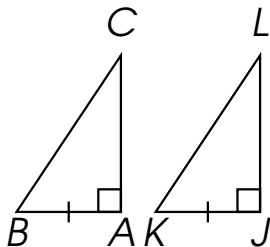
Example 11

Complete the statements using the SAS congruence postulate.



Example 11

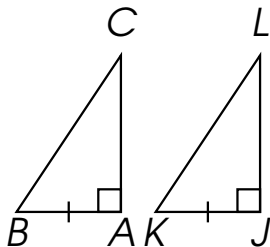
Complete the statements using the SAS congruence postulate.



$$\overline{AB} \cong$$

Example 11

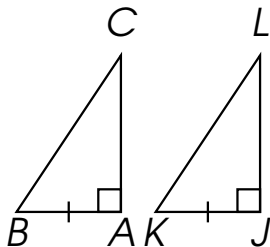
Complete the statements using the SAS congruence postulate.



$$\overline{AB} \cong \overline{JK}$$

Example 11

Complete the statements using the SAS congruence postulate.

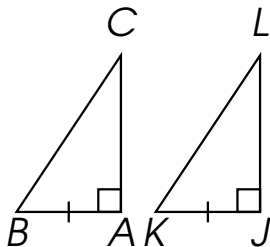


$$\overline{AB} \cong \overline{JK}$$

$$\angle A \cong$$

Example 11

Complete the statements using the SAS congruence postulate.

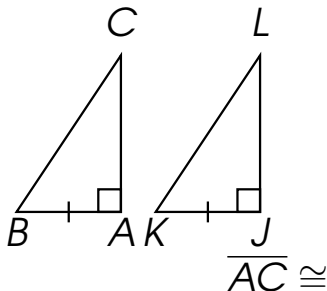


$$\overline{AB} \cong \overline{JK}$$

$$\angle A \cong \angle J$$

Example 11

Complete the statements using the SAS congruence postulate.



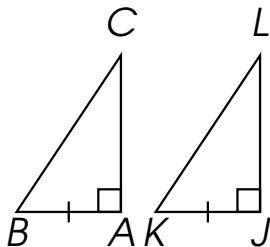
$$\overline{AB} \cong \overline{JK}$$

$$\angle A \cong \angle J$$

$$\overline{AC} \cong$$

Example 11

Complete the statements using the SAS congruence postulate.



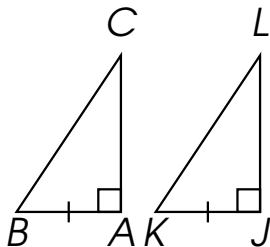
$$\overline{AB} \cong \overline{JK}$$

$$\angle A \cong \angle J$$

$$\overline{AC} \cong \overline{JL}$$

Example 11

Complete the statements using the SAS congruence postulate.



$$\overline{AB} \cong \overline{JK}$$

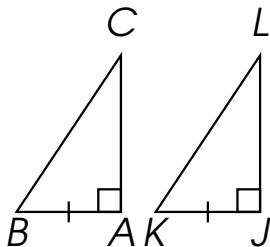
$$\angle A \cong \angle J$$

$$\overline{AC} \cong \overline{JL}$$

$$\triangle ABC \cong$$

Example 11

Complete the statements using the SAS congruence postulate.



$$\overline{AB} \cong \overline{JK}$$

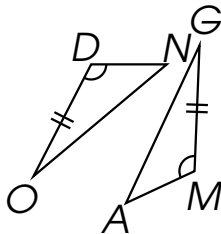
$$\angle A \cong \angle J$$

$$\overline{AC} \cong \overline{JL}$$

$$\triangle ABC \cong \triangle JKL$$

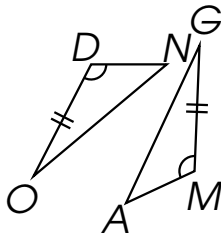
Example 12

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



Example 12

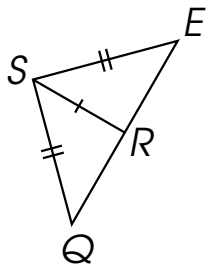
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



$$\overline{DN} \cong \overline{MA}$$

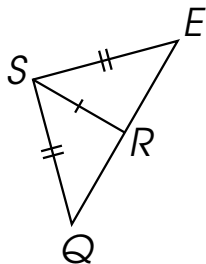
Example 13

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



Example 13

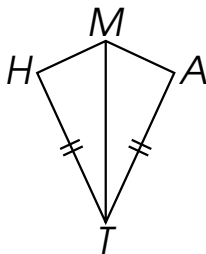
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



$$\angle QSR \cong \angle ESR$$

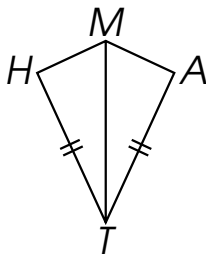
Example 14

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



Example 14

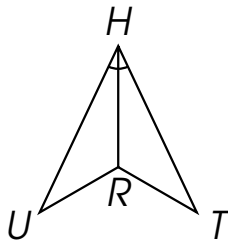
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



$$\angle HTM \cong \angle ATM$$

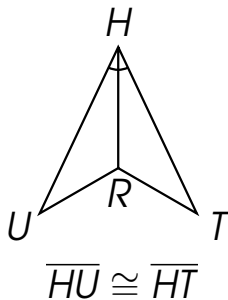
Example 15

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



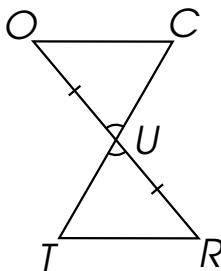
Example 15

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



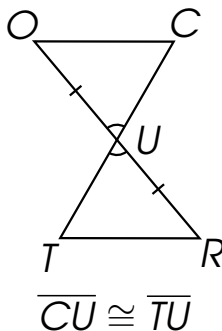
Example 16

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



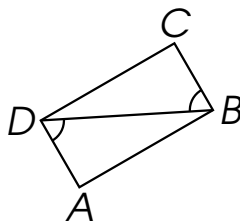
Example 16

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



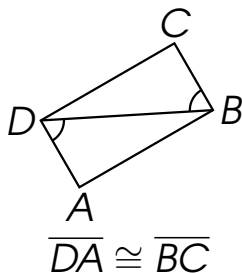
Example 17

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



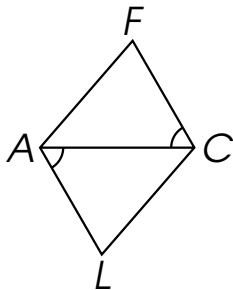
Example 17

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



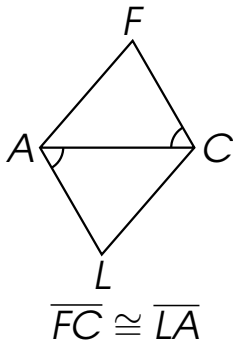
Example 18

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



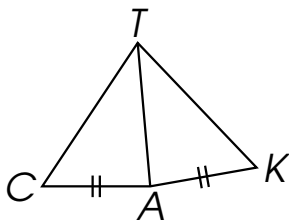
Example 18

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



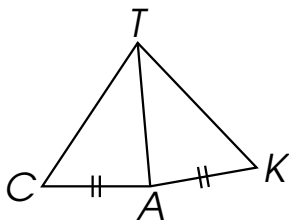
Example 19

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



Example 19

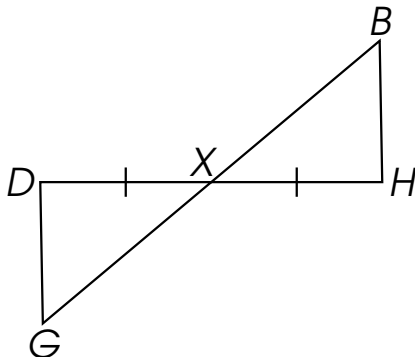
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



$$\angle TAC \cong \angle TAK$$

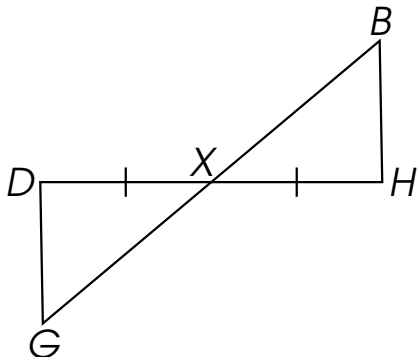
Example 20

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



Example 20

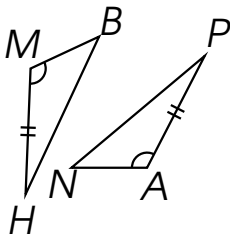
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



$$\overline{BX} \cong \overline{GX}$$

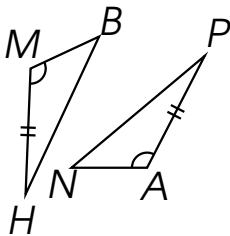
Example 21

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



Example 21

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



$$\overline{MB} \cong \overline{AN}$$

Thank you for watching.