

SAS Triangle Congruence Postulate

Jonathan R. Bacolod

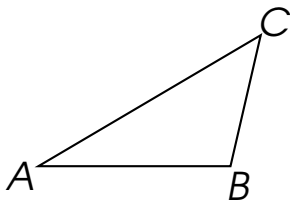
Sauyo High School

What are Included Angle and Included Side?

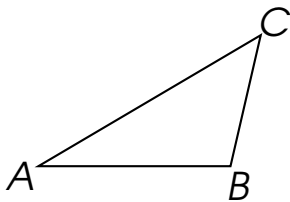
Included angle: the angle between two sides of a triangle

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

What are Included Angle and Included Side?

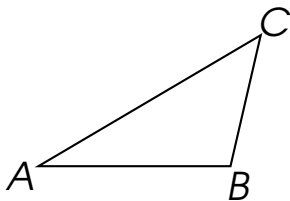


What are Included Angle and Included Side?



In $\triangle ABC$,

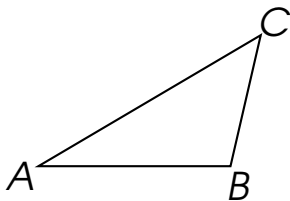
What are Included Angle and Included Side?



In $\triangle ABC$,

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

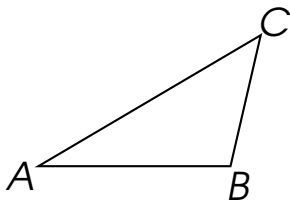
What are Included Angle and Included Side?



In $\triangle ABC$,

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

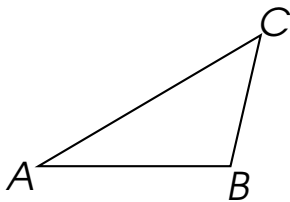
What are Included Angle and Included Side?



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

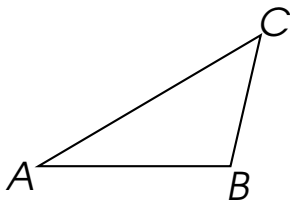
What are Included Angle and Included Side?



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 $\angle B$.

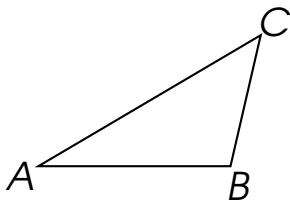
What are Included Angle and Included Side?



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

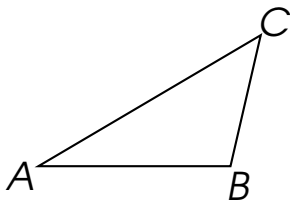
What are Included Angle and Included Side?



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 $\angle C$.

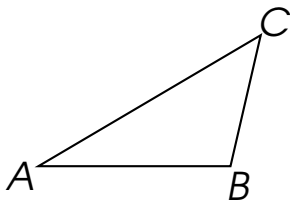
What are Included Angle and Included Side?



In $\triangle ABC$,

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

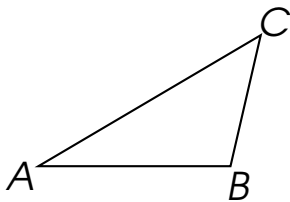
What are Included Angle and Included Side?



In $\triangle ABC$,

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

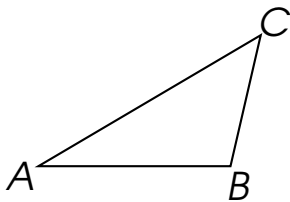
What are Included Angle and Included Side?



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

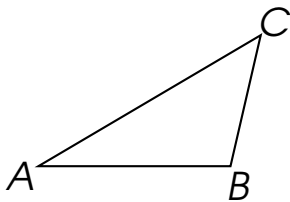
What are Included Angle and Included Side?



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} .

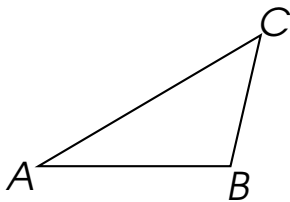
What are Included Angle and Included Side?



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 $\triangle NOD$,

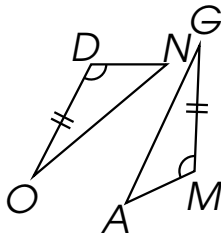
1. The included angle between \overline{NO} and \overline{OD} is $\angle O$.
2. The included angle between \overline{NO} and \overline{ND} is $\angle N$.
3. The included angle between \overline{OD} and \overline{ND} is $\angle D$.
4. The included side between $\angle N$ and $\angle O$ is \overline{NO}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

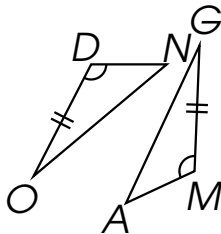
Example 2

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



Example 2

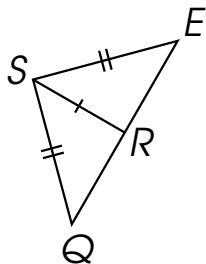
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

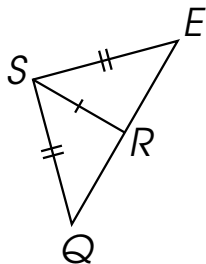
Example 3

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



Example 3

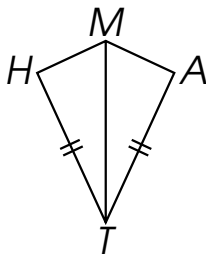
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

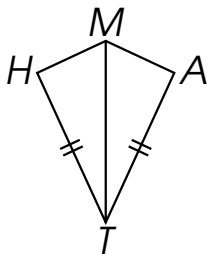
Example 4

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



Example 4

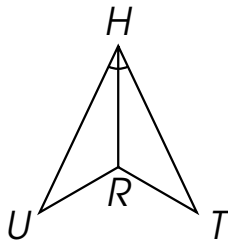
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

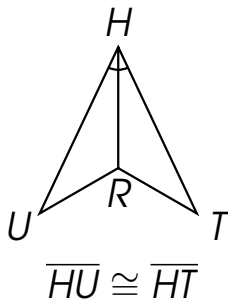
Example 5

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



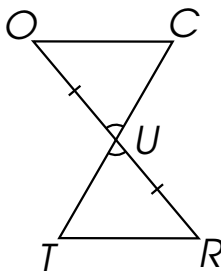
Example 5

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



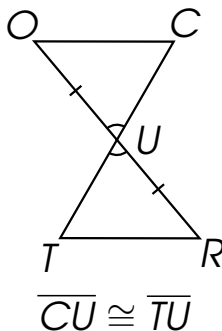
Example 6

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



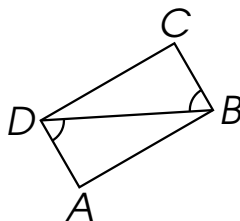
Example 6

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



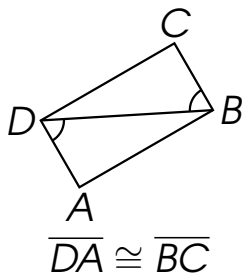
Example 7

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



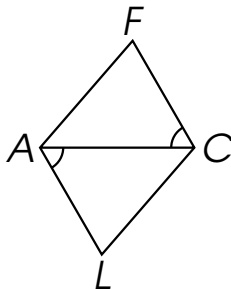
Example 7

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



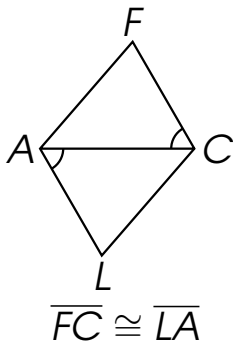
Example 8

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



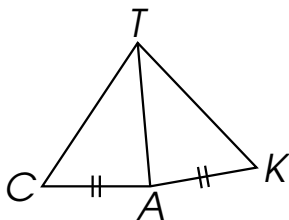
Example 8

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



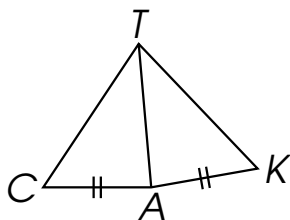
Example 9

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



Example 9

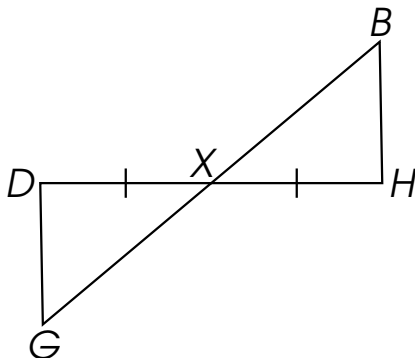
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

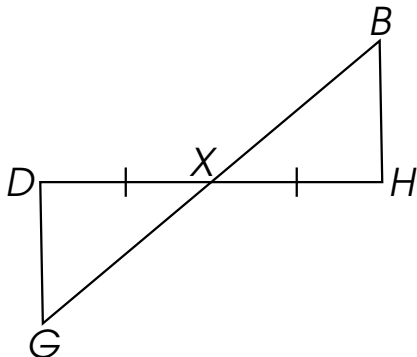
Example 10

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



Example 10

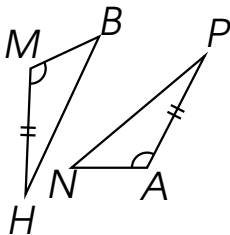
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

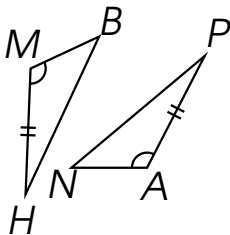
Example 11

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



Example 11

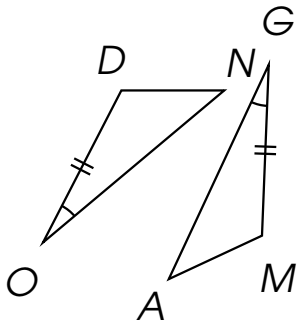
The figures are marked with their congruent parts. Determine the other congruent parts using the SAS congruence postulate.



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

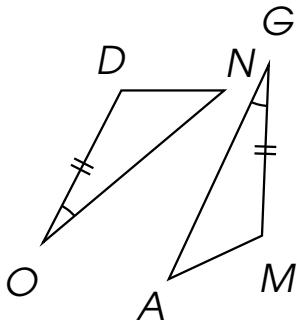
Example 12

Complete the statements using the SAS congruence postulate.



Example 12

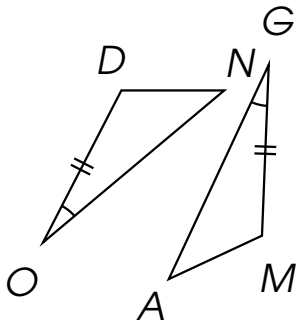
Complete the statements using the SAS congruence postulate.



$$\overline{DO} \cong$$

Example 12

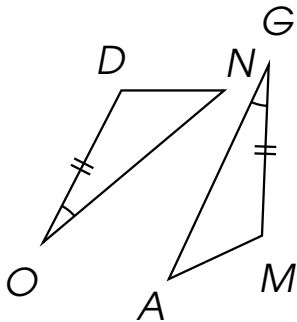
Complete the statements using the SAS congruence postulate.



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

Example 12

Complete the statements using the SAS congruence postulate.

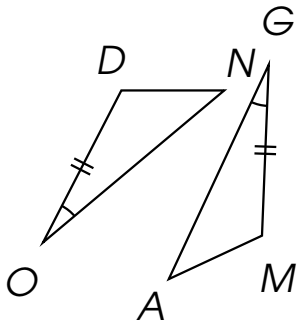


$$\overline{DO} \cong \overline{MG}$$

$$\angle O \cong$$

Example 12

Complete the statements using the SAS congruence postulate.

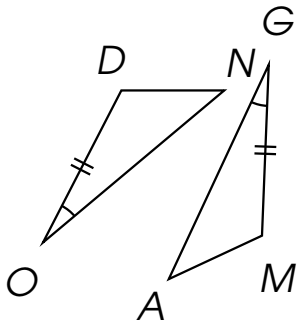


$$\overline{DO} \cong \overline{MG}$$

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

Example 12

Complete the statements using the SAS congruence postulate.



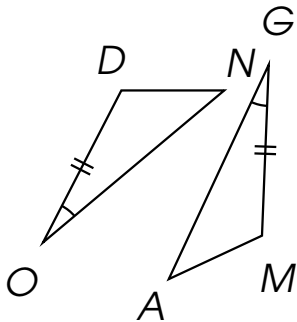
$$\overline{DO} \cong \overline{MG}$$

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

$$\overline{NO} \cong$$

Example 12

Complete the statements using the SAS congruence postulate.



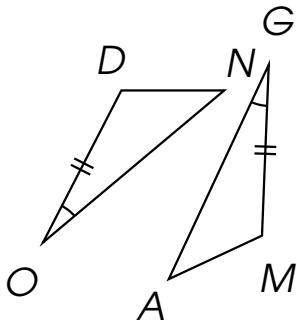
$$\overline{DO} \cong \overline{MG}$$

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

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

Example 12

Complete the statements using the SAS congruence postulate.



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

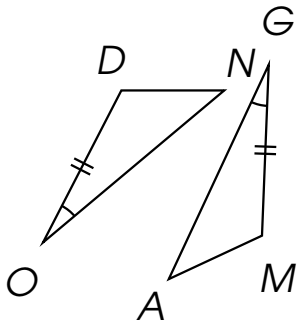
$$\angle O \cong \angle G$$

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

$$\triangle DON \cong$$

Example 12

Complete the statements using the SAS congruence postulate.

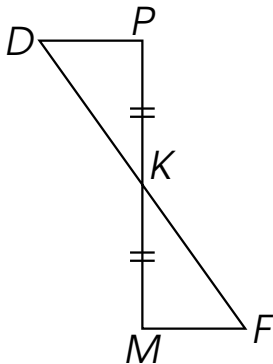


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

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

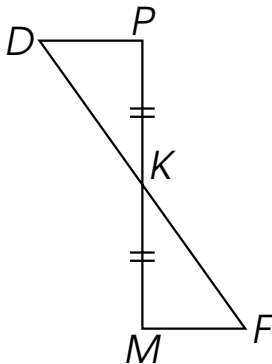
Example 13

Complete the statements using the SAS congruence postulate.



Example 13

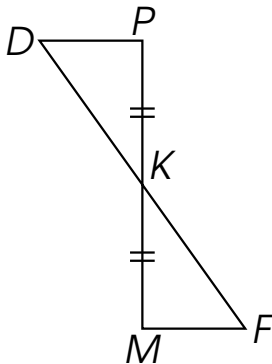
Complete the statements using the SAS congruence postulate.



$$\overline{PK} \cong$$

Example 13

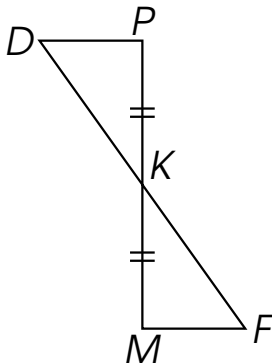
Complete the statements using the SAS congruence postulate.



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

Example 13

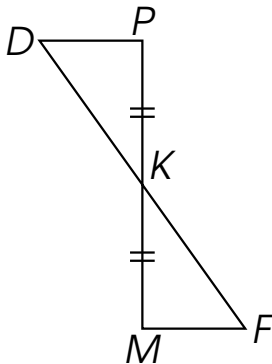
Complete the statements using the SAS congruence postulate.



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

Example 13

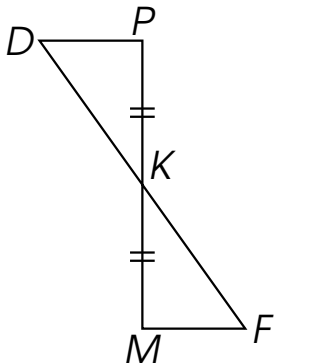
Complete the statements using the SAS congruence postulate.



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

Example 13

Complete the statements using the SAS congruence postulate.

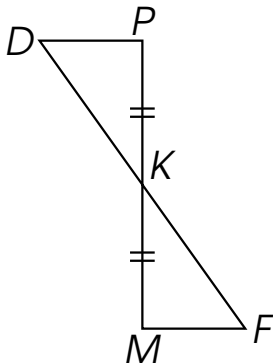


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\overline{DK} \cong$$

Example 13

Complete the statements using the SAS congruence postulate.

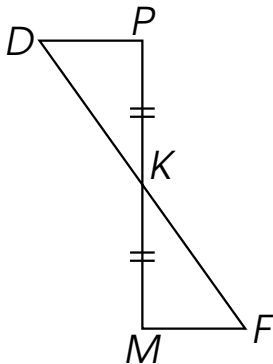


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

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

Example 13

Complete the statements using the SAS congruence postulate.

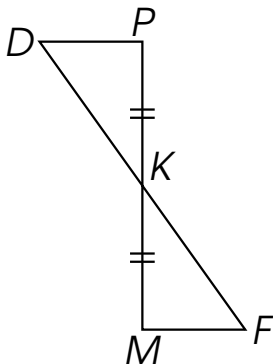


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

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

Example 13

Complete the statements using the SAS congruence postulate.

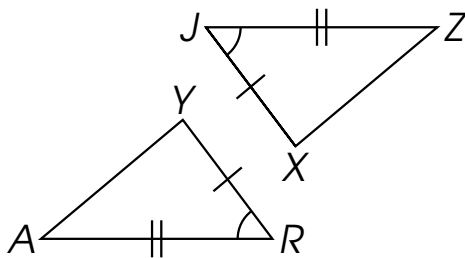


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

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

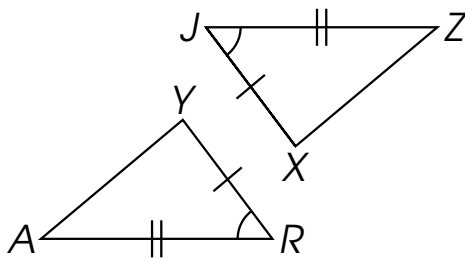
Example 14

Complete the statements using the SAS congruence postulate.



Example 14

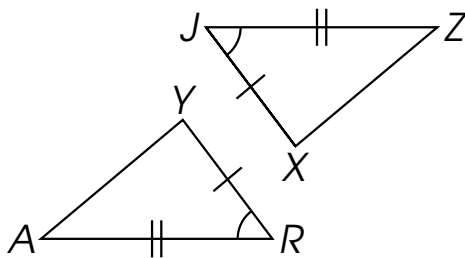
Complete the statements using the SAS congruence postulate.



$$\overline{YR} \cong$$

Example 14

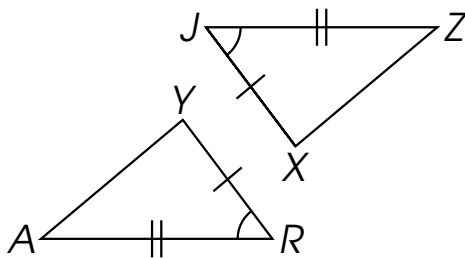
Complete the statements using the SAS congruence postulate.



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

Example 14

Complete the statements using the SAS congruence postulate.

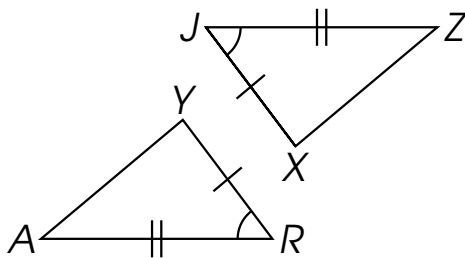


$$\overline{YR} \cong \overline{XJ}$$

$$\overline{AR} \cong$$

Example 14

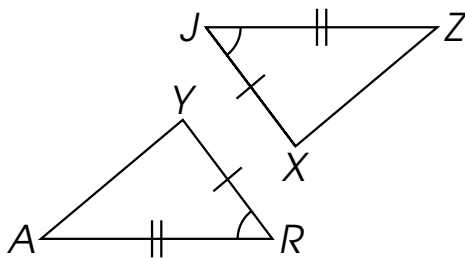
Complete the statements using the SAS congruence postulate.



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

Example 14

Complete the statements using the SAS congruence postulate.

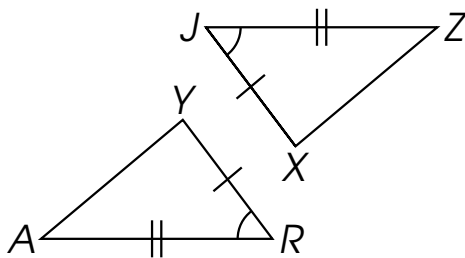


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

$$\angle R \cong$$

Example 14

Complete the statements using the SAS congruence postulate.

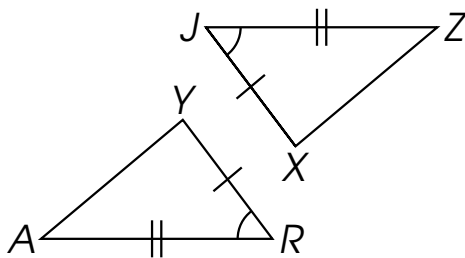


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

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

Example 14

Complete the statements using the SAS congruence postulate.

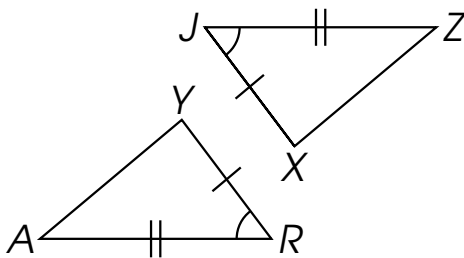


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{JZ}\end{aligned}$$

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

Example 14

Complete the statements using the SAS congruence postulate.

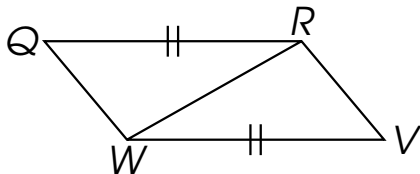


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \overline{AR} &\cong \overline{ZJ}\end{aligned}$$

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

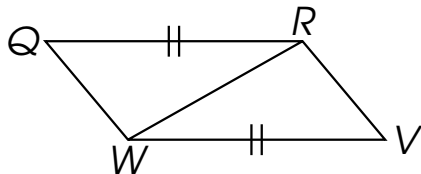
Example 15

Complete the statements using the SAS congruence postulate.



Example 15

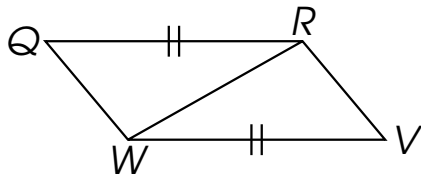
Complete the statements using the SAS congruence postulate.



$$\overline{RW} \cong$$

Example 15

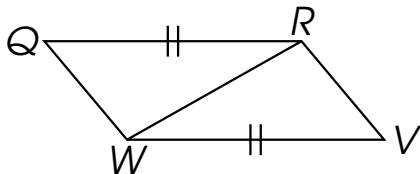
Complete the statements using the SAS congruence postulate.



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

Example 15

Complete the statements using the SAS congruence postulate.

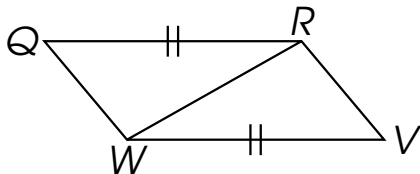


$$\overline{RW} \cong \overline{WR}$$

$$\overline{RQ} \cong$$

Example 15

Complete the statements using the SAS congruence postulate.

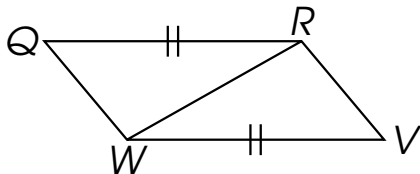


$$\overline{RW} \cong \overline{WR}$$

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

Example 15

Complete the statements using the SAS congruence postulate.

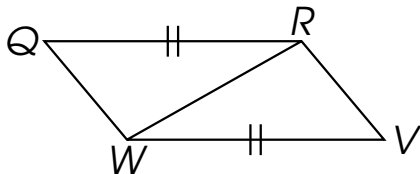


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \overline{RQ} &\cong \overline{WV}\end{aligned}$$

$$\angle QRW \cong$$

Example 15

Complete the statements using the SAS congruence postulate.

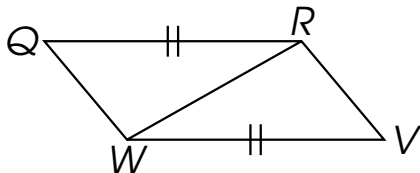


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \overline{RQ} &\cong \overline{WV}\end{aligned}$$

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

Example 15

Complete the statements using the SAS congruence postulate.

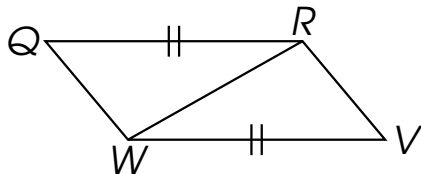


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \overline{RQ} &\cong \overline{WV}\end{aligned}$$

$$\begin{aligned}\angle QRW &\cong \angle VWR \\ \triangle QRW &\cong\end{aligned}$$

Example 15

Complete the statements using the SAS congruence postulate.

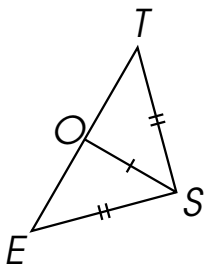


$$\overline{RW} \cong \overline{WR}$$
$$\overline{RQ} \cong \overline{WV}$$

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

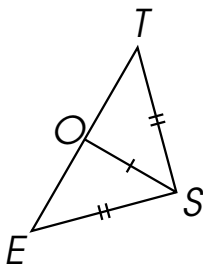
Example 16

Complete the statements using the SAS congruence postulate.



Example 16

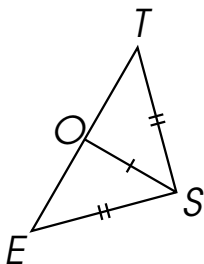
Complete the statements using the SAS congruence postulate.



$$\overline{OS} \cong$$

Example 16

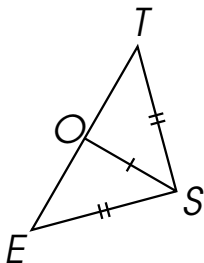
Complete the statements using the SAS congruence postulate.



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

Example 16

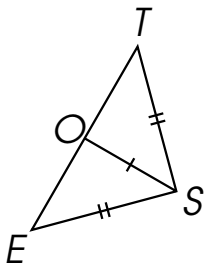
Complete the statements using the SAS congruence postulate.



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

Example 16

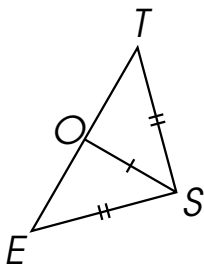
Complete the statements using the SAS congruence postulate.



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

Example 16

Complete the statements using the SAS congruence postulate.

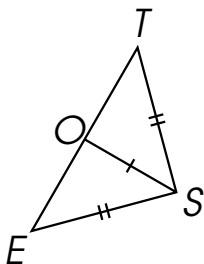


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

$$\angle TSO \cong$$

Example 16

Complete the statements using the SAS congruence postulate.

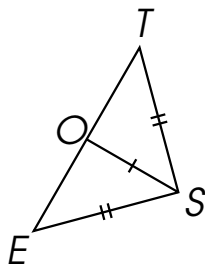


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

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

Example 16

Complete the statements using the SAS congruence postulate.

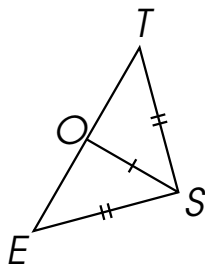


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

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

Example 16

Complete the statements using the SAS congruence postulate.

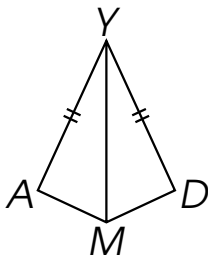


$$\begin{aligned}\overline{OS} &\cong \overline{OS} \\ \overline{TS} &\cong \overline{ES}\end{aligned}$$

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

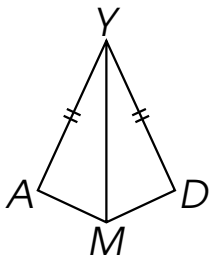
Example 17

Complete the statements using the SAS congruence postulate.



Example 17

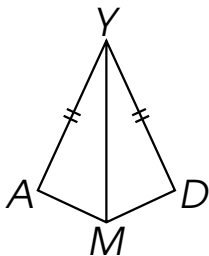
Complete the statements using the SAS congruence postulate.



$$\overline{YM} \cong$$

Example 17

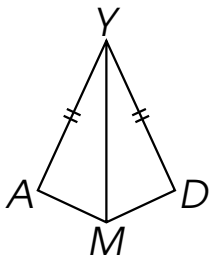
Complete the statements using the SAS congruence postulate.



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

Example 17

Complete the statements using the SAS congruence postulate.

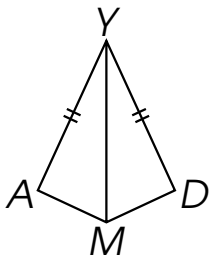


$$\overline{YM} \cong \overline{YM}$$

$$\overline{YA} \cong$$

Example 17

Complete the statements using the SAS congruence postulate.

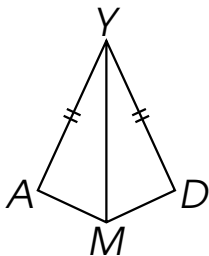


$$\overline{YM} \cong \overline{YM}$$

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

Example 17

Complete the statements using the SAS congruence postulate.

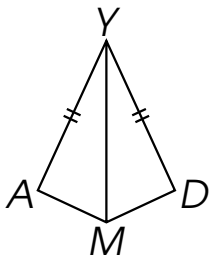


$$\begin{aligned}\overline{YM} &\cong \overline{YM} \\ \overline{YA} &\cong \overline{YD}\end{aligned}$$

$$\angle AYM \cong$$

Example 17

Complete the statements using the SAS congruence postulate.

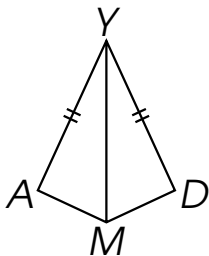


$$\begin{aligned}\overline{YM} &\cong \overline{YM} \\ \overline{YA} &\cong \overline{YD}\end{aligned}$$

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

Example 17

Complete the statements using the SAS congruence postulate.



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

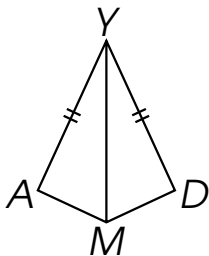
$$\overline{YA} \cong \overline{YD}$$

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

$$\triangle AYM \cong$$

Example 17

Complete the statements using the SAS congruence postulate.



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

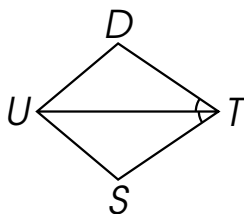
$$\overline{YA} \cong \overline{YD}$$

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

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

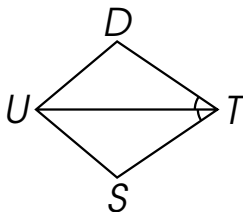
Example 18

Complete the statements using the SAS congruence postulate.



Example 18

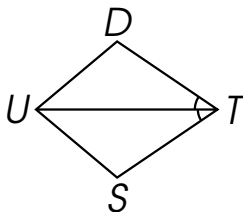
Complete the statements using the SAS congruence postulate.



$$\overline{UT} \cong$$

Example 18

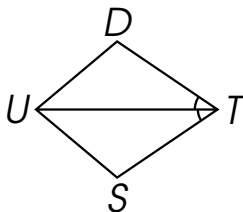
Complete the statements using the SAS congruence postulate.



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

Example 18

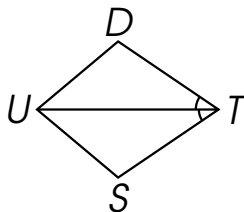
Complete the statements using the SAS congruence postulate.



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

Example 18

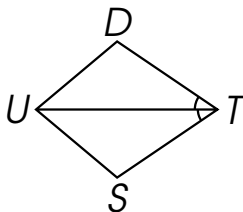
Complete the statements using the SAS congruence postulate.



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

Example 18

Complete the statements using the SAS congruence postulate.

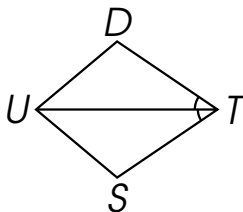


$$\overline{UT} \cong \overline{UT}$$
$$\angle DTU \cong \angle STU$$

$$\overline{DT} \cong$$

Example 18

Complete the statements using the SAS congruence postulate.

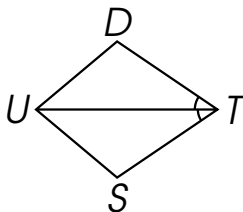


$$\overline{UT} \cong \overline{UT}$$
$$\angle DTU \cong \angle STU$$

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

Example 18

Complete the statements using the SAS congruence postulate.

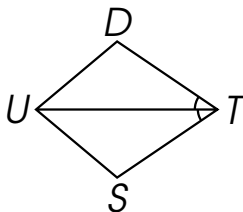


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

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

Example 18

Complete the statements using the SAS congruence postulate.

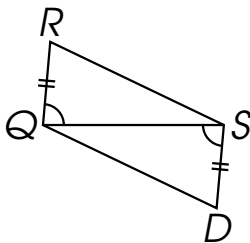


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

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

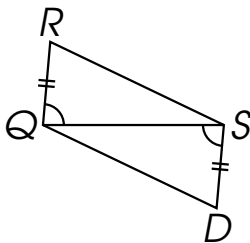
Example 19

Complete the statements using the SAS congruence postulate.



Example 19

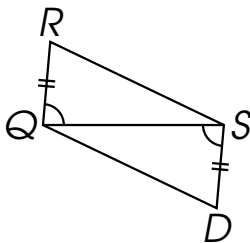
Complete the statements using the SAS congruence postulate.



$$\overline{QS} \cong$$

Example 19

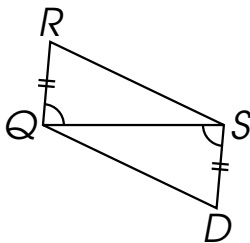
Complete the statements using the SAS congruence postulate.



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

Example 19

Complete the statements using the SAS congruence postulate.

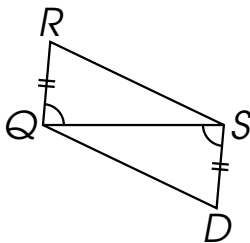


$$\overline{QS} \cong \overline{SQ}$$

$$\overline{QR} \cong$$

Example 19

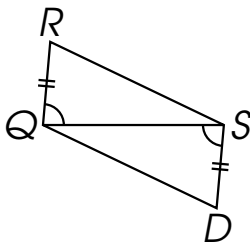
Complete the statements using the SAS congruence postulate.



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

Example 19

Complete the statements using the SAS congruence postulate.

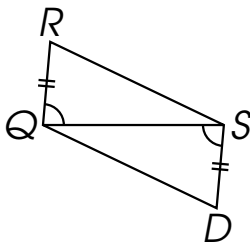


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

$$\angle RQS \cong$$

Example 19

Complete the statements using the SAS congruence postulate.

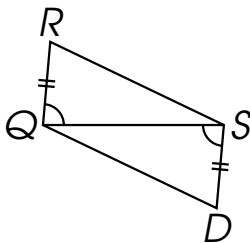


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

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

Example 19

Complete the statements using the SAS congruence postulate.

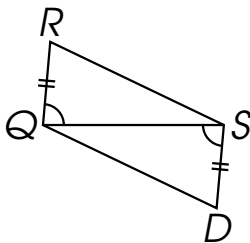


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \overline{QR} &\cong \overline{SD}\end{aligned}$$

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

Example 19

Complete the statements using the SAS congruence postulate.

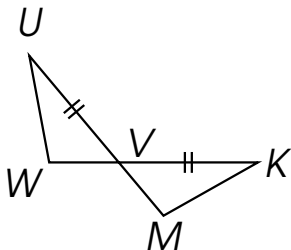


$$\overline{QS} \cong \overline{SQ}$$
$$\overline{QR} \cong \overline{SD}$$

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

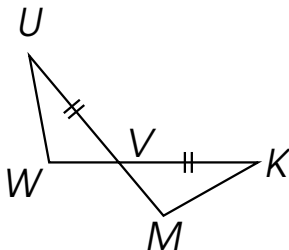
Example 20

Complete the statements using the SAS congruence postulate.



Example 20

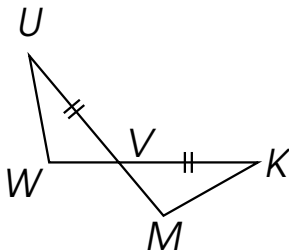
Complete the statements using the SAS congruence postulate.



$$\overline{UV} \cong$$

Example 20

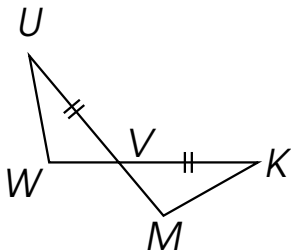
Complete the statements using the SAS congruence postulate.



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

Example 20

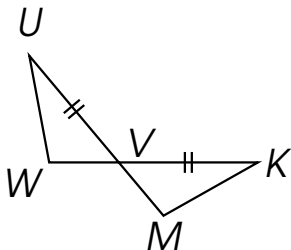
Complete the statements using the SAS congruence postulate.



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

Example 20

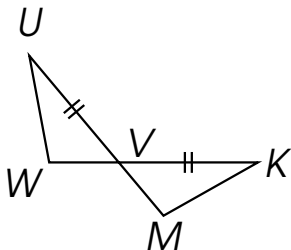
Complete the statements using the SAS congruence postulate.



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

Example 20

Complete the statements using the SAS congruence postulate.

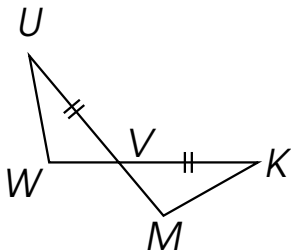


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\overline{WV} \cong$$

Example 20

Complete the statements using the SAS congruence postulate.

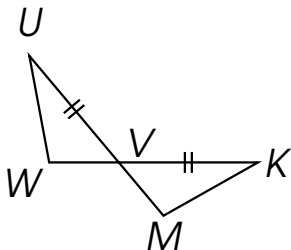


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

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

Example 20

Complete the statements using the SAS congruence postulate.

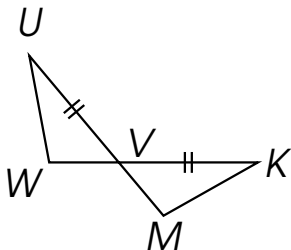


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

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

Example 20

Complete the statements using the SAS congruence postulate.

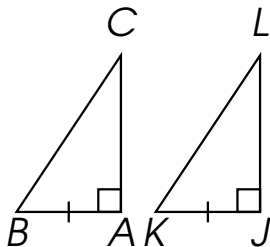


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

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

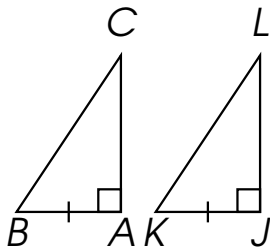
Example 21

Complete the statements using the SAS congruence postulate.



Example 21

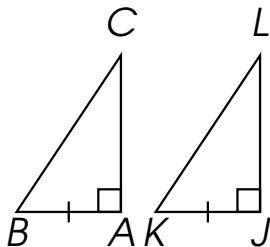
Complete the statements using the SAS congruence postulate.



$$\overline{AB} \cong$$

Example 21

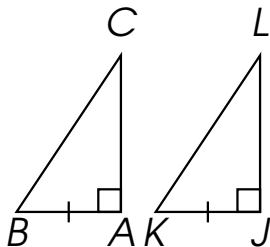
Complete the statements using the SAS congruence postulate.



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

Example 21

Complete the statements using the SAS congruence postulate.

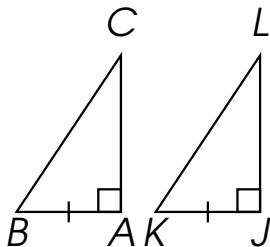


$$\overline{AB} \cong \overline{JK}$$

$$\angle A \cong$$

Example 21

Complete the statements using the SAS congruence postulate.

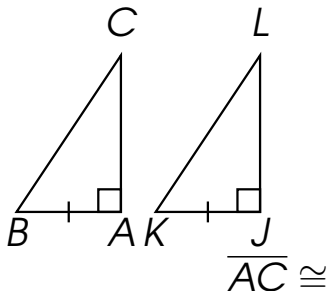


$$\overline{AB} \cong \overline{JK}$$

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

Example 21

Complete the statements using the SAS congruence postulate.



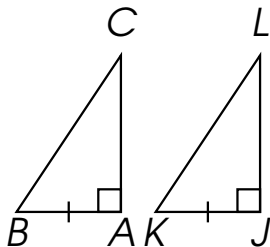
$$\overline{AB} \cong \overline{JK}$$

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

$$\overline{AC} \cong$$

Example 21

Complete the statements using the SAS congruence postulate.



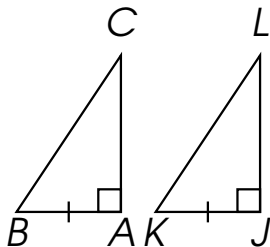
$$\overline{AB} \cong \overline{JK}$$

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

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

Example 21

Complete the statements using the SAS congruence postulate.



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

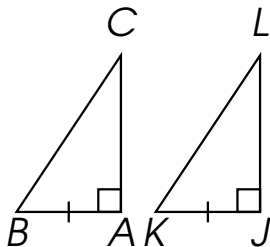
$$\angle A \cong \angle J$$

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

$$\triangle ABC \cong$$

Example 21

Complete the statements using the SAS congruence postulate.



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

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

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

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

Thank you for watching.