

# ASA Triangle Congruence Postulate

Jonathan R. Bacolod

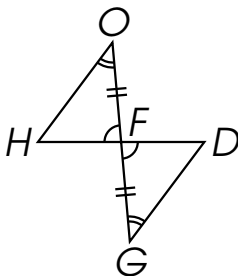
Sauyo High School

# ASA (Side-Angle-Side) Congruence Postulate

If the two angles and the included side of one triangle are congruent to the corresponding two angles and an included side of another triangle, then the triangles are congruent.

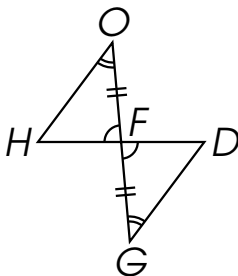
# Illustrative Example

Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.



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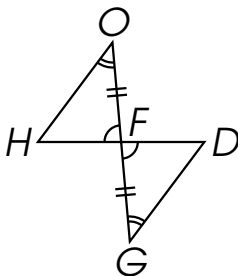
Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.



$$\angle OFH \cong$$

# Illustrative Example

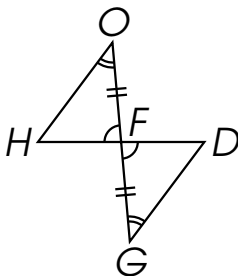
Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.



$$\angle OFH \cong \angle GFD$$

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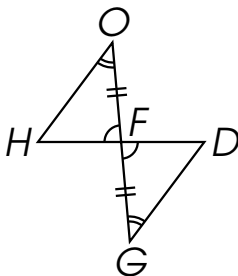
Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.



$$\begin{aligned}\angle OFH &\cong \angle GFD \\ \overline{FO} &\cong \overline{FG}\end{aligned}$$

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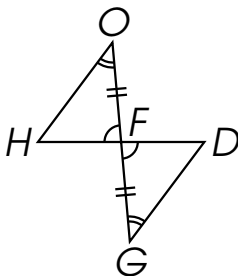
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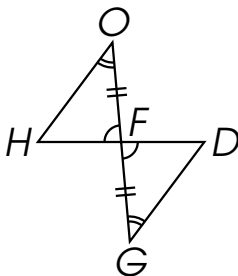
$$\begin{aligned}\angle OFH &\cong \angle GFD \\ \overline{FO} &\cong \overline{FG}\end{aligned}$$

$$\angle O \cong$$



# Illustrative Example

Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.

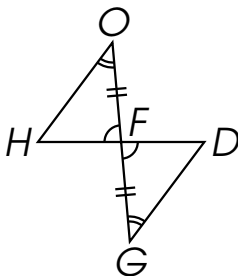


$$\begin{aligned}\angle OFH &\cong \angle GFD \\ \overline{FO} &\cong \overline{FG}\end{aligned}$$

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

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Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.

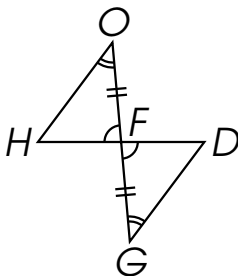


$$\begin{aligned}\angle OFH &\cong \angle GFD \\ \overline{FO} &\cong \overline{FG}\end{aligned}$$

$$\begin{aligned}\angle O &\cong \angle G \\ \therefore \triangle OFH &\cong \triangle GFD\end{aligned}$$

# Illustrative Example

Show that  $\triangle OFH$  and  $\triangle GFD$  are congruent using the ASA triangle congruence postulate.

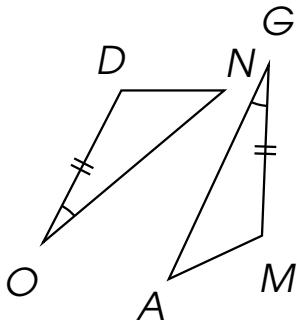


$$\begin{aligned}\angle OFH &\cong \angle GFD \\ \overline{FO} &\cong \overline{FG}\end{aligned}$$

$$\begin{aligned}\angle O &\cong \angle G \\ \therefore \triangle OFH &\cong \triangle GFD\end{aligned}$$

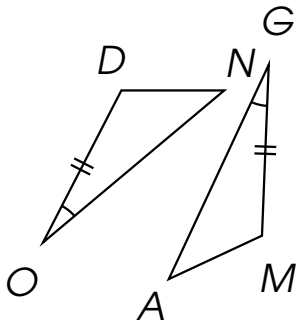
# Example 1

Complete the statements using the ASA congruence postulate.



# Example 1

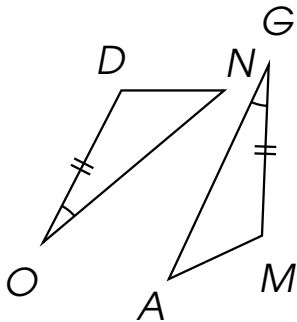
Complete the statements using the ASA congruence postulate.



$$\overline{DO} \cong$$

# Example 1

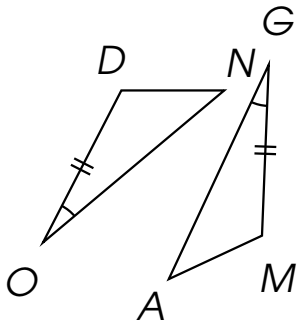
Complete the statements using the ASA congruence postulate.



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

# Example 1

Complete the statements using the ASA congruence postulate.

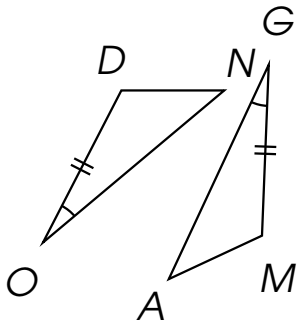


$$\overline{DO} \cong \overline{MG}$$

$$\angle O \cong$$

# Example 1

Complete the statements using the ASA congruence postulate.



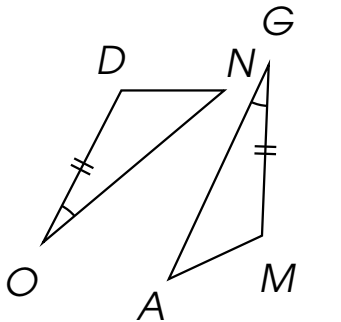
$$\overline{DO} \cong \overline{MG}$$

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



# Example 1

Complete the statements using the ASA congruence postulate.



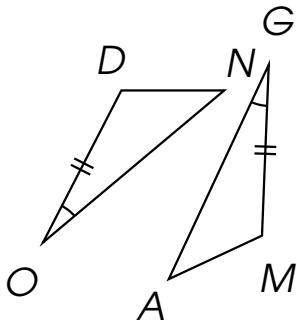
$$\overline{DO} \cong \overline{MG}$$

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

$$\angle D \cong$$

# Example 1

Complete the statements using the ASA congruence postulate.

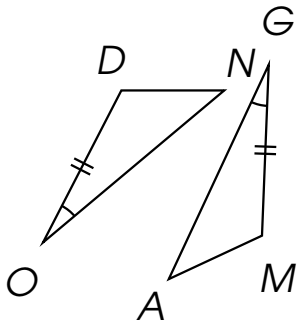


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

$$\angle D \cong \angle M$$

# Example 1

Complete the statements using the ASA congruence postulate.

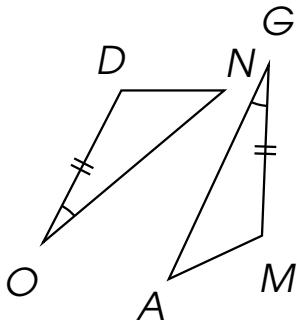


$$\overline{DO} \cong \overline{MG}$$
$$\angle O \cong \angle G$$

$$\angle D \cong \angle M$$
$$\triangle DON \cong$$

# Example 1

Complete the statements using the ASA congruence postulate.

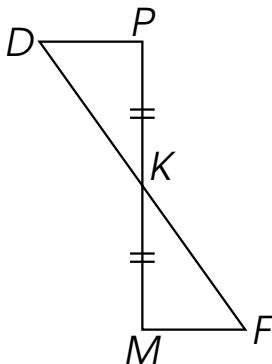


$$\begin{aligned}\overline{DO} &\cong \overline{MG} \\ \angle O &\cong \angle G\end{aligned}$$

$$\begin{aligned}\angle D &\cong \angle M \\ \triangle DON &\cong \triangle MGA\end{aligned}$$

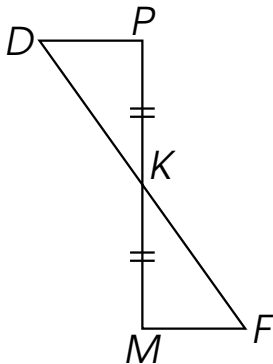
## Example 2

Complete the statements using the ASA congruence postulate.



## Example 2

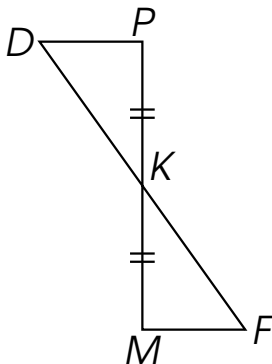
Complete the statements using the ASA congruence postulate.



$$\overline{PK} \cong$$

## Example 2

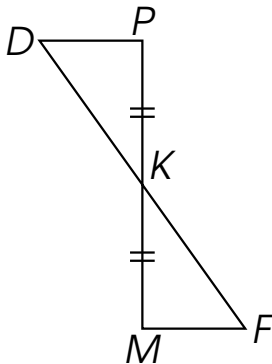
Complete the statements using the ASA congruence postulate.



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

## Example 2

Complete the statements using the ASA congruence postulate.

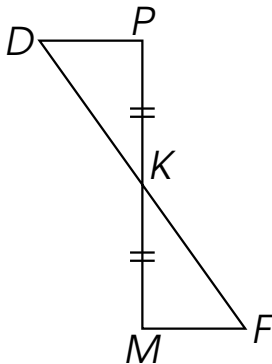


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong$$



## Example 2

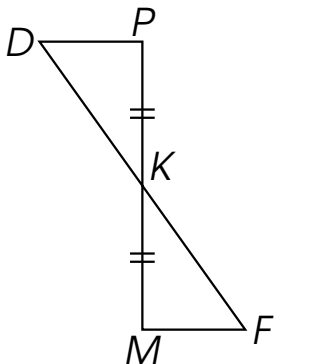
Complete the statements using the ASA congruence postulate.



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

## Example 2

Complete the statements using the ASA congruence postulate.

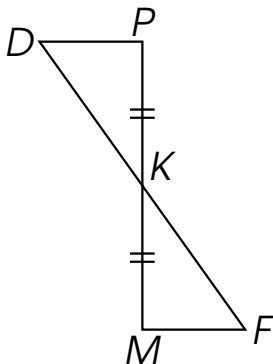


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\angle P \cong$$

## Example 2

Complete the statements using the ASA congruence postulate.

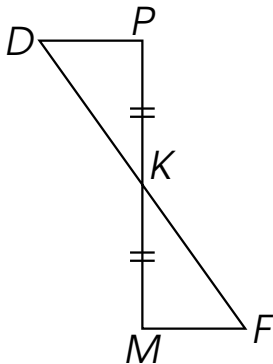


$$\begin{aligned}\overline{PK} &\cong \overline{MK} \\ \angle DKP &\cong \angle FKM\end{aligned}$$

$$\angle P \cong \angle M$$

## Example 2

Complete the statements using the ASA congruence postulate.

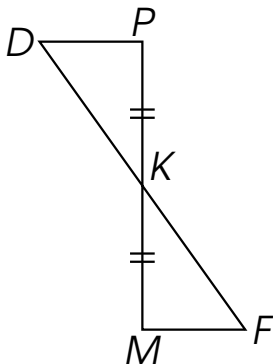


$$\begin{aligned}\overline{PK} &\cong \overline{MK} \\ \angle DKP &\cong \angle FKM\end{aligned}$$

$$\begin{aligned}\angle P &\cong \angle M \\ \triangle DKP &\cong\end{aligned}$$

## Example 2

Complete the statements using the ASA congruence postulate.

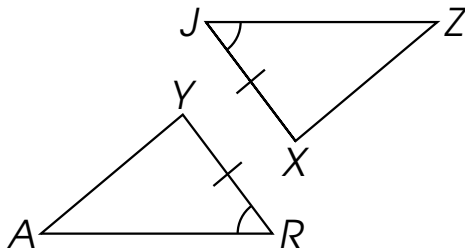


$$\overline{PK} \cong \overline{MK}$$
$$\angle DKP \cong \angle FKM$$

$$\angle P \cong \angle M$$
$$\triangle DKP \cong \triangle FKM$$

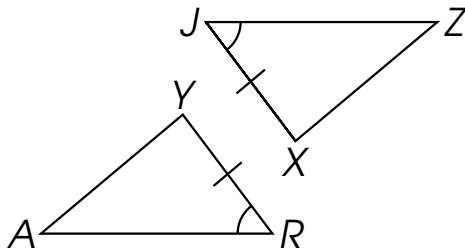
# Example 3

Complete the statements using the ASA congruence postulate.



# Example 3

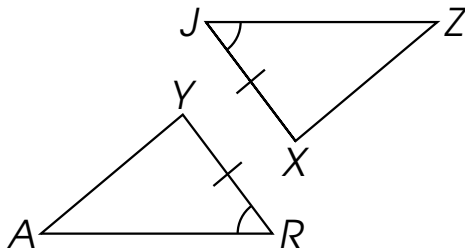
Complete the statements using the ASA congruence postulate.



$$\overline{YR} \cong$$

# Example 3

Complete the statements using the ASA congruence postulate.

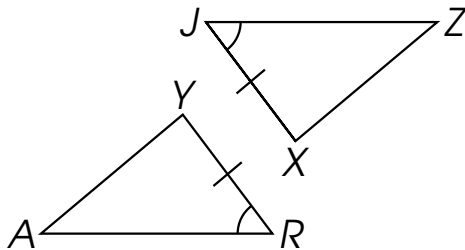


$$\overline{YR} \cong \overline{XJ}$$



# Example 3

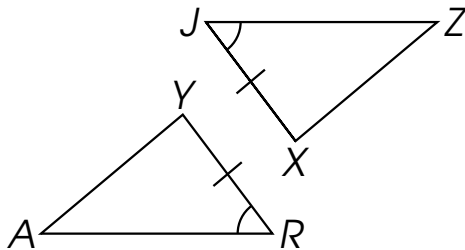
Complete the statements using the ASA congruence postulate.



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

# Example 3

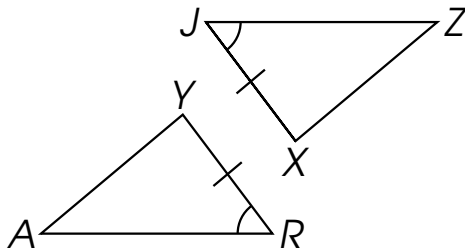
Complete the statements using the ASA congruence postulate.



$$\overline{YR} \cong \overline{XJ}$$
$$\angle R \cong \angle J$$

# Example 3

Complete the statements using the ASA congruence postulate.

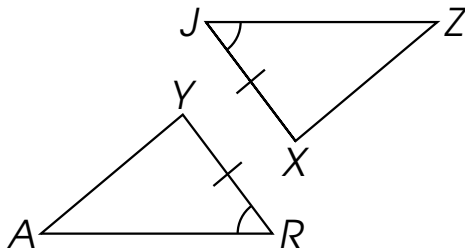


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \angle R &\cong \angle J\end{aligned}$$

$$\angle Y \cong$$

# Example 3

Complete the statements using the ASA congruence postulate.

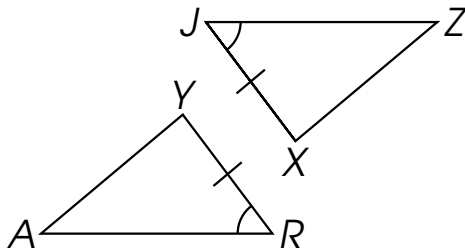


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \angle R &\cong \angle J\end{aligned}$$

$$\angle Y \cong \angle X$$

# Example 3

Complete the statements using the ASA congruence postulate.

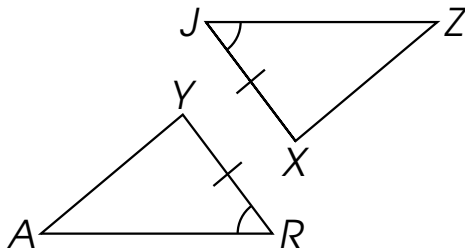


$$\overline{YR} \cong \overline{XJ}$$
$$\angle R \cong \angle J$$

$$\angle Y \cong \angle X$$
$$\triangle AYR \cong$$

# Example 3

Complete the statements using the ASA congruence postulate.

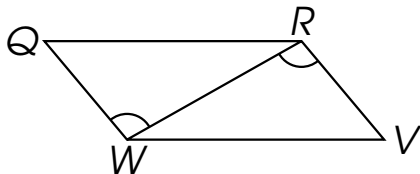


$$\begin{aligned}\overline{YR} &\cong \overline{XJ} \\ \angle R &\cong \angle J\end{aligned}$$

$$\begin{aligned}\angle Y &\cong \angle X \\ \triangle AYR &\cong \triangle ZXJ\end{aligned}$$

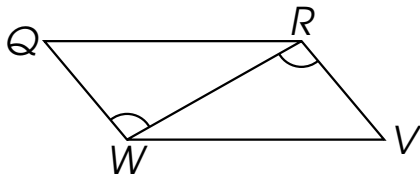
# Example 4

Complete the statements using the ASA congruence postulate.



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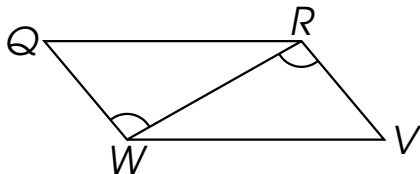


$$\overline{RW} \cong$$



# Example 4

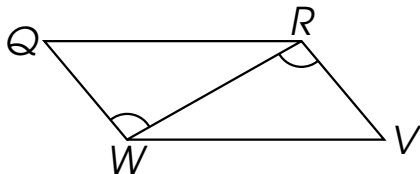
Complete the statements using the ASA congruence postulate.



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

# Example 4

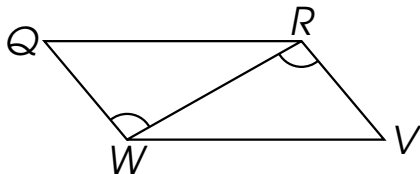
Complete the statements using the ASA congruence postulate.



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

# Example 4

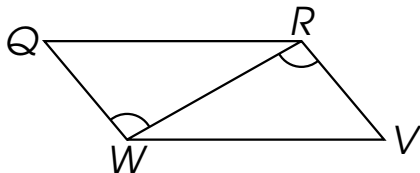
Complete the statements using the ASA congruence postulate.



$$\overline{RW} \cong \overline{WR}$$
$$\angle RWQ \cong \angle WRV$$

# Example 4

Complete the statements using the ASA congruence postulate.

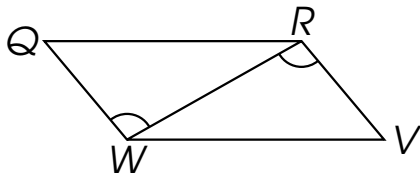


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \angle RWQ &\cong \angle WRV\end{aligned}$$

$$\angle QRW \cong$$

# Example 4

Complete the statements using the ASA congruence postulate.

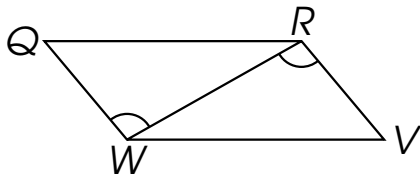


$$\overline{RW} \cong \overline{WR}$$
$$\angle RWQ \cong \angle WRV$$

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

# Example 4

Complete the statements using the ASA congruence postulate.

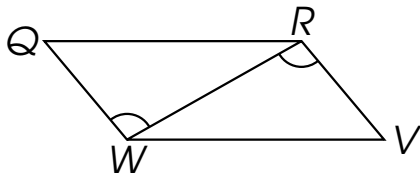


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \angle RWQ &\cong \angle WRV\end{aligned}$$

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

# Example 4

Complete the statements using the ASA congruence postulate.

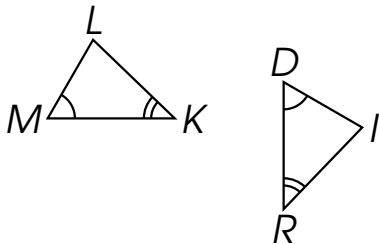


$$\begin{aligned}\overline{RW} &\cong \overline{WR} \\ \angle RWQ &\cong \angle WRV\end{aligned}$$

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

# Example 5

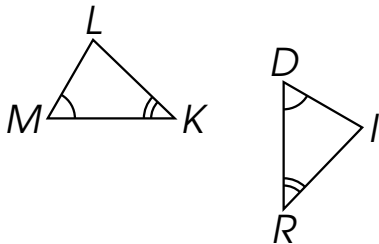
Complete the statements using the ASA congruence postulate.





# Example 5

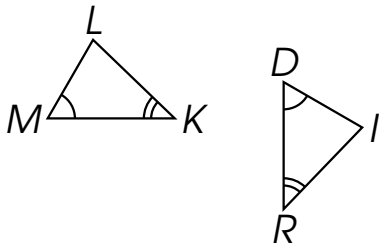
Complete the statements using the ASA congruence postulate.



$$\angle M \cong$$

# Example 5

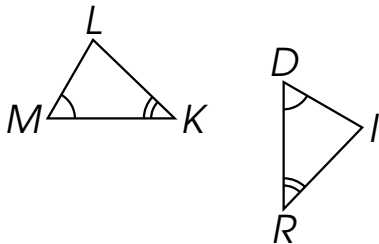
Complete the statements using the ASA congruence postulate.



$$\angle M \cong \angle D$$

# Example 5

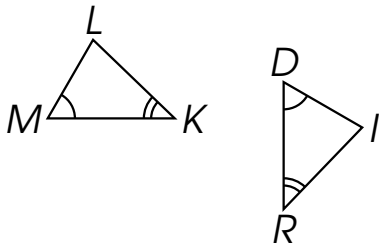
Complete the statements using the ASA congruence postulate.



$$\begin{aligned}\angle M &\cong \angle D \\ \angle K &\cong\end{aligned}$$

# Example 5

Complete the statements using the ASA congruence postulate.

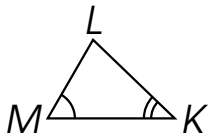


$$\angle M \cong \angle D$$

$$\angle K \cong \angle R$$

# Example 5

Complete the statements using the ASA congruence postulate.

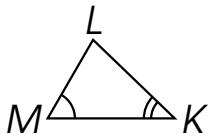


$$\begin{aligned}\angle M &\cong \angle D \\ \angle K &\cong \angle R\end{aligned}$$

$$\overline{MK} \cong$$

# Example 5

Complete the statements using the ASA congruence postulate.

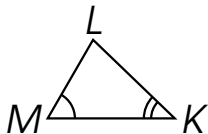


$$\begin{aligned}\angle M &\cong \angle D \\ \angle K &\cong \angle R\end{aligned}$$

$$\overline{MK} \cong \overline{DR}$$

# Example 5

Complete the statements using the ASA congruence postulate.

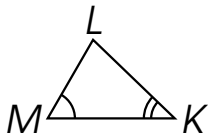


$$\begin{aligned}\angle M &\cong \angle D \\ \angle K &\cong \angle R\end{aligned}$$

$$\begin{aligned}\overline{MK} &\cong \overline{DR} \\ \triangle KLM &\cong\end{aligned}$$

# Example 5

Complete the statements using the ASA congruence postulate.



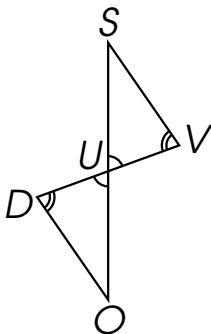
$$\begin{aligned}\angle M &\cong \angle D \\ \angle K &\cong \angle R\end{aligned}$$

$$\begin{aligned}\overline{MK} &\cong \overline{DR} \\ \triangle KLM &\cong \triangle RID\end{aligned}$$



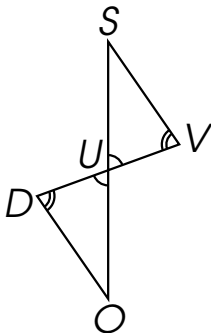
# Example 6

Complete the statements using the ASA congruence postulate.



# Example 6

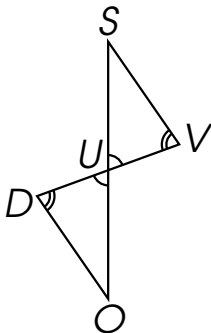
Complete the statements using the ASA congruence postulate.



$$\angle DUO \cong$$

# Example 6

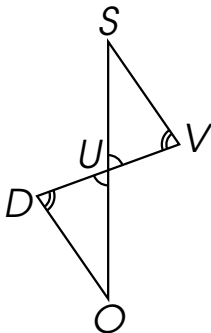
Complete the statements using the ASA congruence postulate.



$$\angle DUO \cong \angle VUS$$

# Example 6

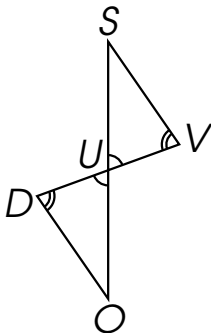
Complete the statements using the ASA congruence postulate.



$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong\end{aligned}$$

# Example 6

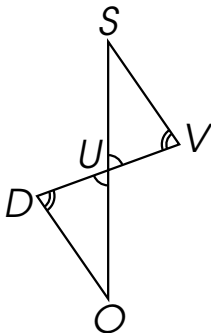
Complete the statements using the ASA congruence postulate.



$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong \angle V\end{aligned}$$

# Example 6

Complete the statements using the ASA congruence postulate.

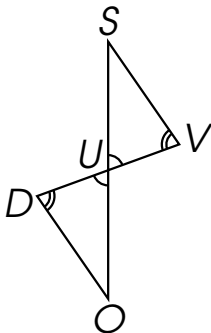


$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong \angle V\end{aligned}$$

$$\overline{UD} \cong$$

# Example 6

Complete the statements using the ASA congruence postulate.

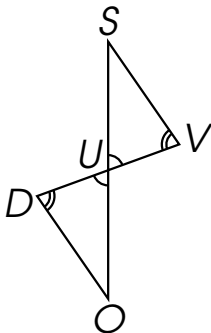


$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong \angle V\end{aligned}$$

$$\overline{UD} \cong \overline{UV}$$

# Example 6

Complete the statements using the ASA congruence postulate.



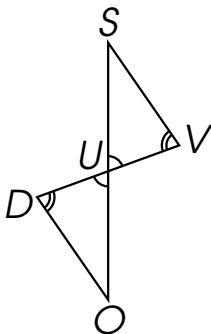
$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong \angle V\end{aligned}$$

$$\begin{aligned}\overline{UD} &\cong \overline{UV} \\ \triangle DUO &\cong\end{aligned}$$



# Example 6

Complete the statements using the ASA congruence postulate.

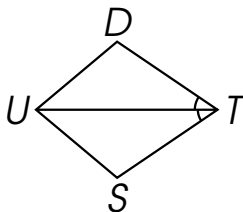


$$\begin{aligned}\angle DUO &\cong \angle VUS \\ \angle D &\cong \angle V\end{aligned}$$

$$\begin{aligned}\overline{UD} &\cong \overline{UV} \\ \triangle DUO &\cong \triangle VUS\end{aligned}$$

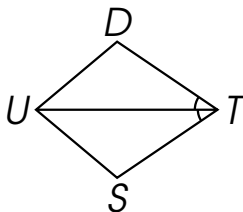
# Example 7

Complete the statements using the ASA congruence postulate.



# Example 7

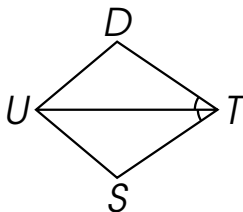
Complete the statements using the ASA congruence postulate.



$$\overline{UT} \cong$$

# Example 7

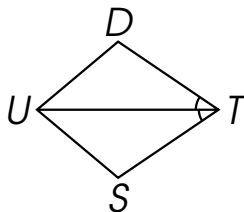
Complete the statements using the ASA congruence postulate.



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

# Example 7

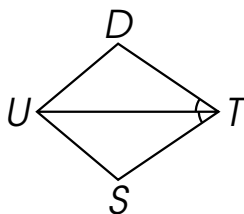
Complete the statements using the ASA congruence postulate.



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

# Example 7

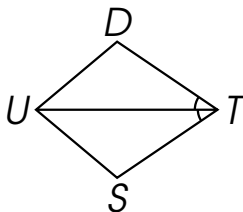
Complete the statements using the ASA congruence postulate.



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

# Example 7

Complete the statements using the ASA congruence postulate.

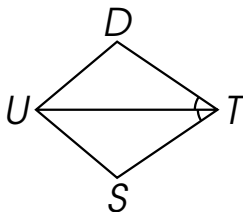


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\angle DUT \cong$$

# Example 7

Complete the statements using the ASA congruence postulate.



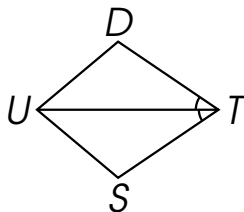
$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\angle DUT \cong \angle SUT$$



# Example 7

Complete the statements using the ASA congruence postulate.

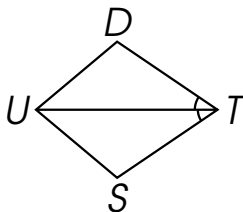


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\begin{aligned}\angle DUT &\cong \angle SUT \\ \triangle DTU &\cong\end{aligned}$$

# Example 7

Complete the statements using the ASA congruence postulate.

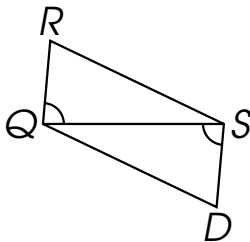


$$\begin{aligned}\overline{UT} &\cong \overline{UT} \\ \angle DTU &\cong \angle STU\end{aligned}$$

$$\begin{aligned}\angle DUT &\cong \angle SUT \\ \triangle DTU &\cong \triangle STU\end{aligned}$$

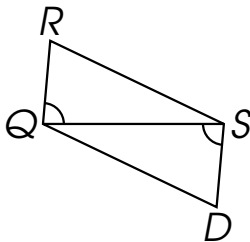
# Example 8

Complete the statements using the ASA congruence postulate.



# Example 8

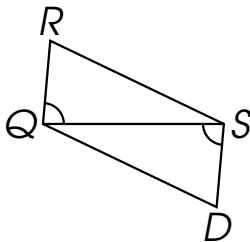
Complete the statements using the ASA congruence postulate.



$$\overline{QS} \cong$$

# Example 8

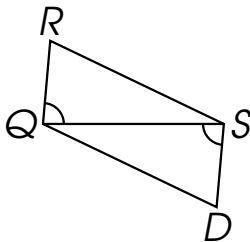
Complete the statements using the ASA congruence postulate.



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

# Example 8

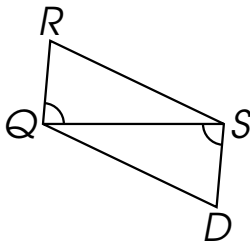
Complete the statements using the ASA congruence postulate.



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

# Example 8

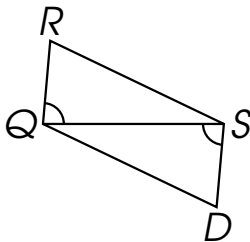
Complete the statements using the ASA congruence postulate.



$$\overline{QS} \cong \overline{SQ}$$
$$\angle RQS \cong \angle DSQ$$

# Example 8

Complete the statements using the ASA congruence postulate.



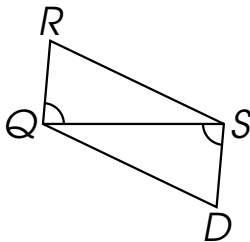
$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \angle RQS &\cong \angle DSQ\end{aligned}$$

$$\angle RSQ \cong$$



# Example 8

Complete the statements using the ASA congruence postulate.

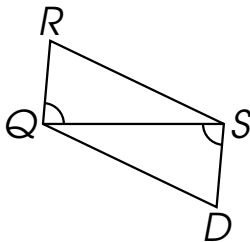


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \angle RQS &\cong \angle DSQ\end{aligned}$$

$$\angle RSQ \cong \angle DQS$$

# Example 8

Complete the statements using the ASA congruence postulate.

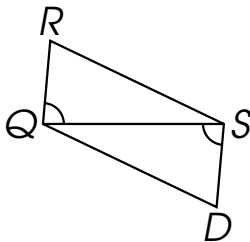


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \angle RQS &\cong \angle DSQ\end{aligned}$$

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

# Example 8

Complete the statements using the ASA congruence postulate.

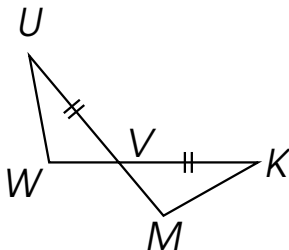


$$\begin{aligned}\overline{QS} &\cong \overline{SQ} \\ \angle RQS &\cong \angle DSQ\end{aligned}$$

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

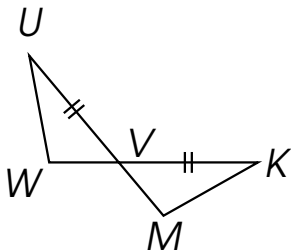
# Example 9

Complete the statements using the ASA congruence postulate.



# Example 9

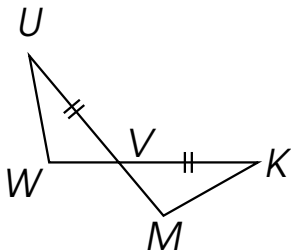
Complete the statements using the ASA congruence postulate.



$$\overline{UV} \cong$$

# Example 9

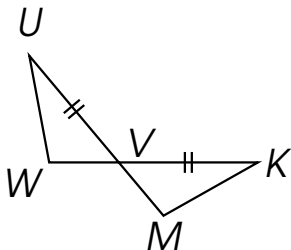
Complete the statements using the ASA congruence postulate.



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

# Example 9

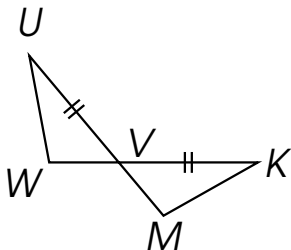
Complete the statements using the ASA congruence postulate.



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

# Example 9

Complete the statements using the ASA congruence postulate.

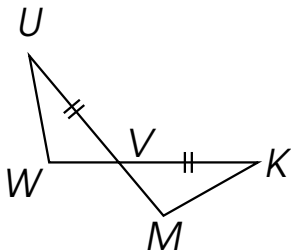


$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong \angle KVM$$



# Example 9

Complete the statements using the ASA congruence postulate.

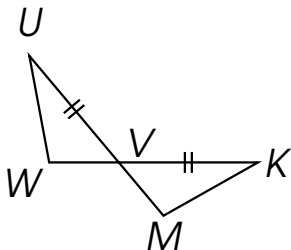


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\angle U \cong$$

# Example 9

Complete the statements using the ASA congruence postulate.

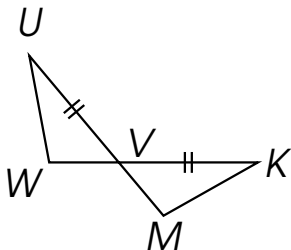


$$\begin{aligned}\overline{UV} &\cong \overline{KV} \\ \angle UVW &\cong \angle KVM\end{aligned}$$

$$\angle U \cong \angle K$$

# Example 9

Complete the statements using the ASA congruence postulate.

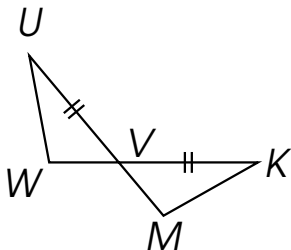


$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong \angle KVM$$

$$\angle U \cong \angle K$$
$$\triangle UVW \cong$$

# Example 9

Complete the statements using the ASA congruence postulate.

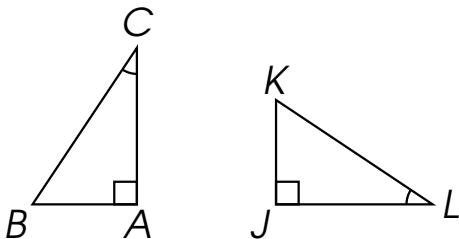


$$\overline{UV} \cong \overline{KV}$$
$$\angle UVW \cong \angle KVM$$

$$\angle U \cong \angle K$$
$$\triangle UVW \cong \triangle KVM$$

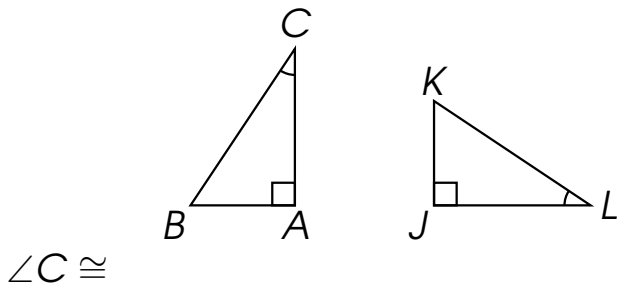
# Example 10

Complete the statements using the ASA congruence postulate.



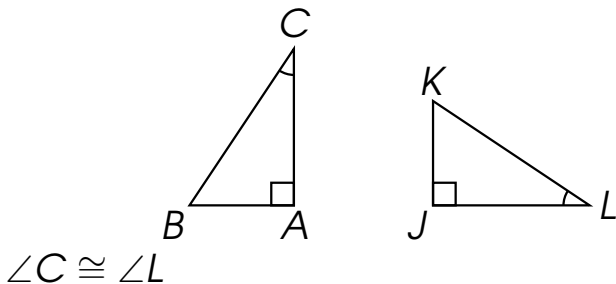
# Example 10

Complete the statements using the ASA congruence postulate.



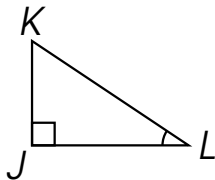
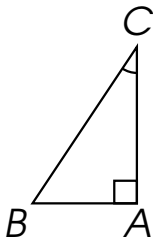
# Example 10

Complete the statements using the ASA congruence postulate.



# Example 10

Complete the statements using the ASA congruence postulate.



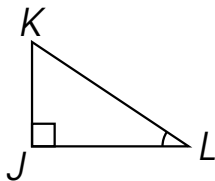
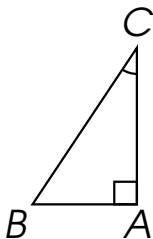
$$\angle C \cong \angle L$$

$$\angle A \cong$$



# Example 10

Complete the statements using the ASA congruence postulate.

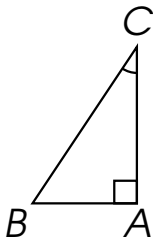


$$\angle C \cong \angle L$$

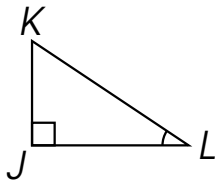
$$\angle A \cong \angle J$$

# Example 10

Complete the statements using the ASA congruence postulate.



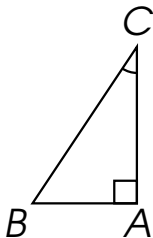
$$\begin{aligned}\angle C &\cong \angle L \\ \angle A &\cong \angle J\end{aligned}$$



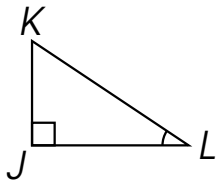
$$\overline{AC} \cong$$

# Example 10

Complete the statements using the ASA congruence postulate.



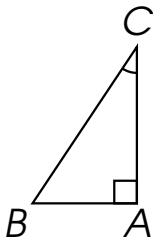
$$\begin{aligned}\angle C &\cong \angle L \\ \angle A &\cong \angle J\end{aligned}$$



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

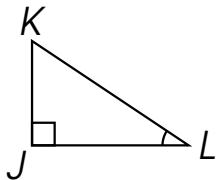
# Example 10

Complete the statements using the ASA congruence postulate.



$$\angle C \cong \angle L$$

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

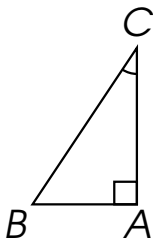


$$\overline{AC} \cong \overline{JL}$$

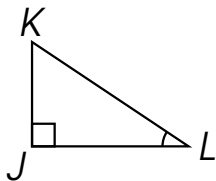
$$\triangle ABC \cong$$

# Example 10

Complete the statements using the ASA congruence postulate.



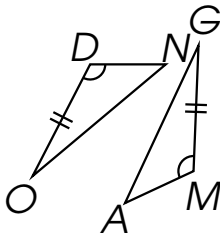
$$\begin{aligned}\angle C &\cong \angle L \\ \angle A &\cong \angle J\end{aligned}$$



$$\begin{aligned}\overline{AC} &\cong \overline{JL} \\ \triangle ABC &\cong \triangle JKL\end{aligned}$$

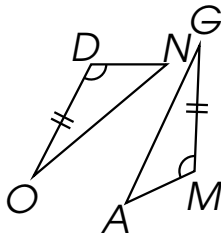
## Example 12

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



# Example 12

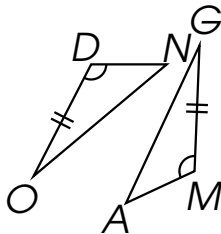
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



$$\angle O \cong$$

## Example 12

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

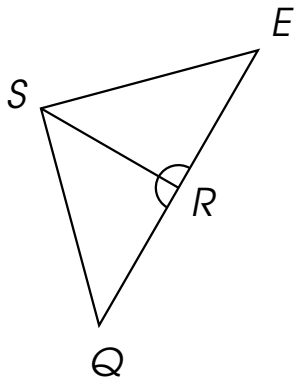


$$\angle O \cong \angle G$$



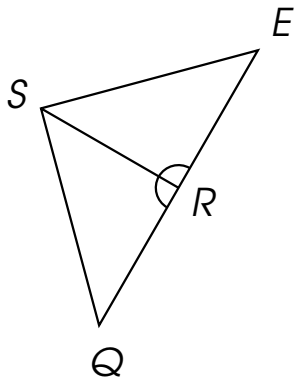
# Example 13

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



# Example 13

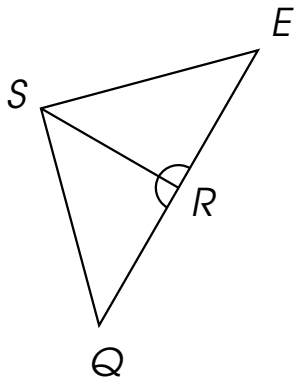
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



$$\angle QSR \cong$$

# Example 13

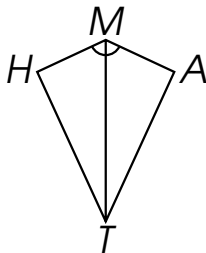
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



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

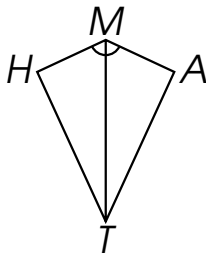
# Example 14

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



# Example 14

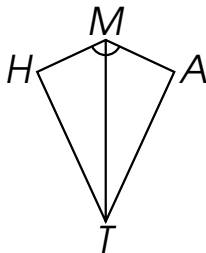
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



$$\angle HTM \cong$$

# Example 14

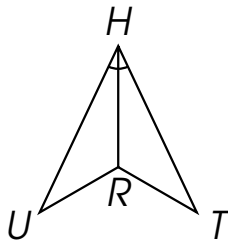
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



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

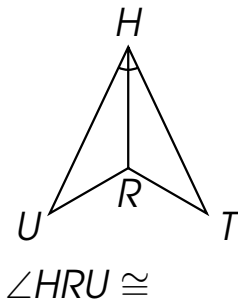
# Example 15

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



# Example 15

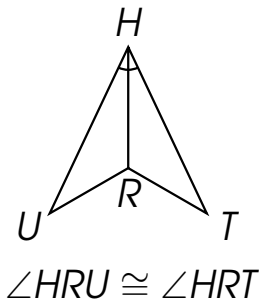
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.





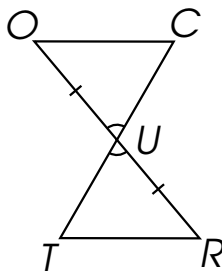
# Example 15

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



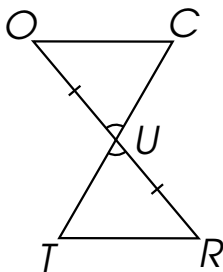
# Example 16

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



# Example 16

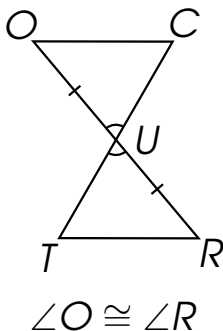
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



$$\angle O \cong$$

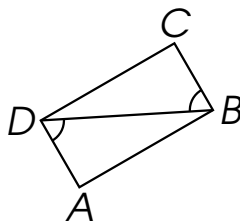
# Example 16

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



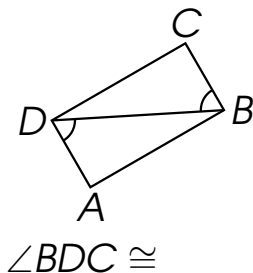
# Example 17

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



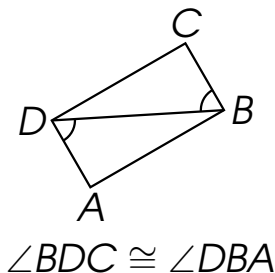
# Example 17

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



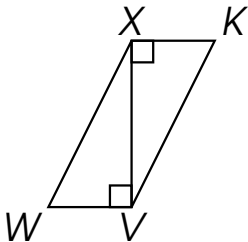
# Example 17

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



# Example 18

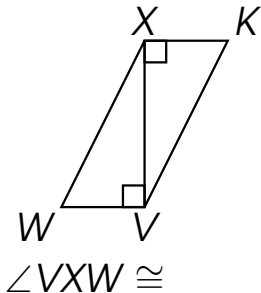
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.





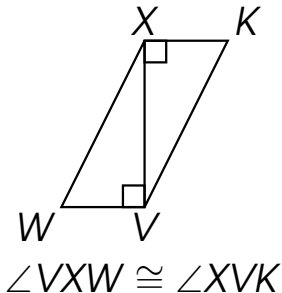
# Example 18

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



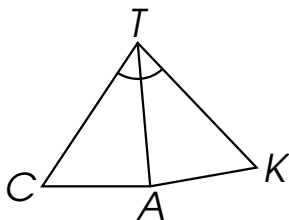
# Example 18

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



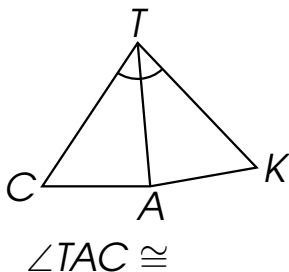
# Example 19

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



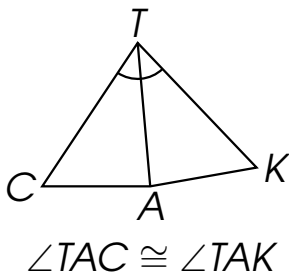
# Example 19

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



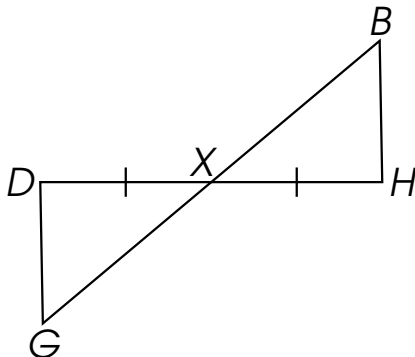
# Example 19

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



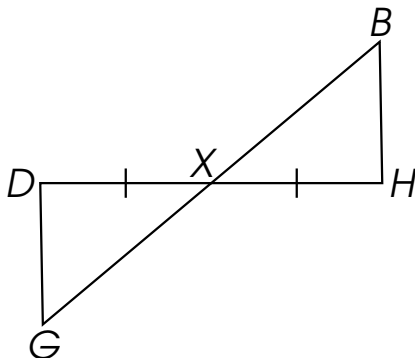
# Example 20

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



# Example 20

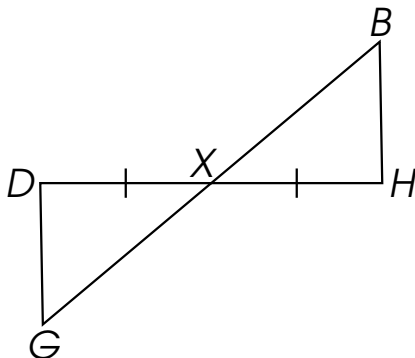
The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.



$$\angle D \cong$$

# Example 20

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

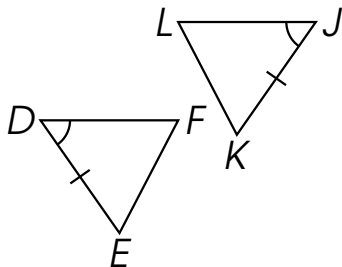


$$\angle D \cong \angle H$$



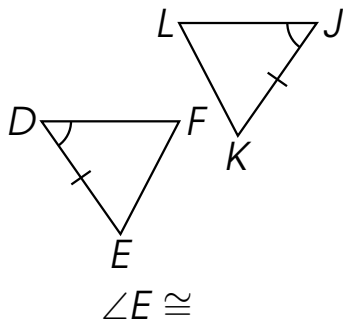
# Example 21

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



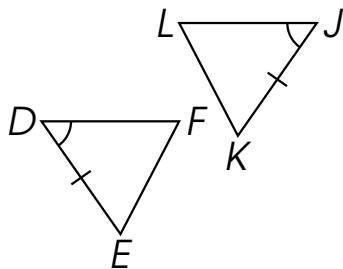
# Example 21

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



# Example 21

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



$$\angle E \cong \angle K$$

**Thank you for watching.**