SSS Triangle Congruence Postulate

Jonathan R. Bacolod

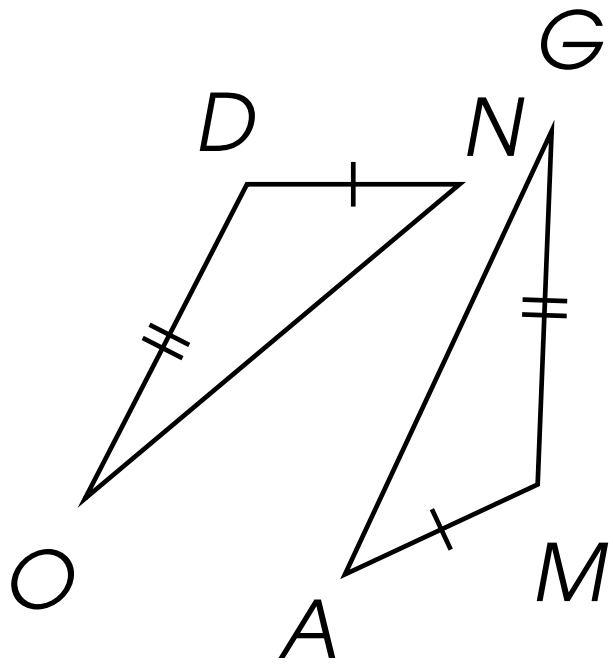
Sauyo High School

SSS (Side-Side-Side) Congruence Postulate

If the three sides of one triangle are congruent to the three sides of another triangle, then the triangles are congruent.

Example 1

Complete the statements using the SSS congruence postulate.



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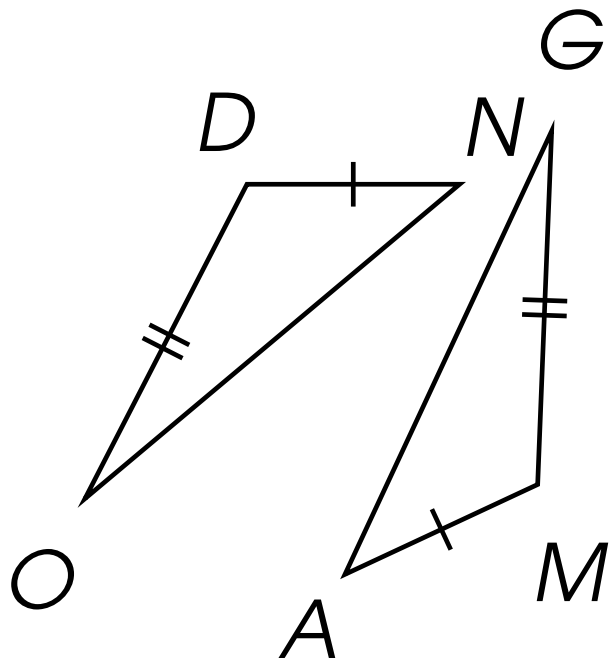

$\overline{DN} \cong$

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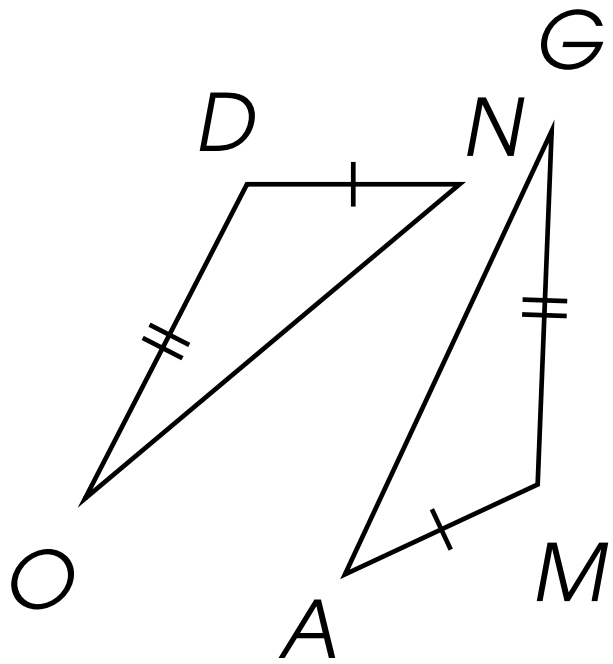

$\overline{DN} \cong \overline{MA}$

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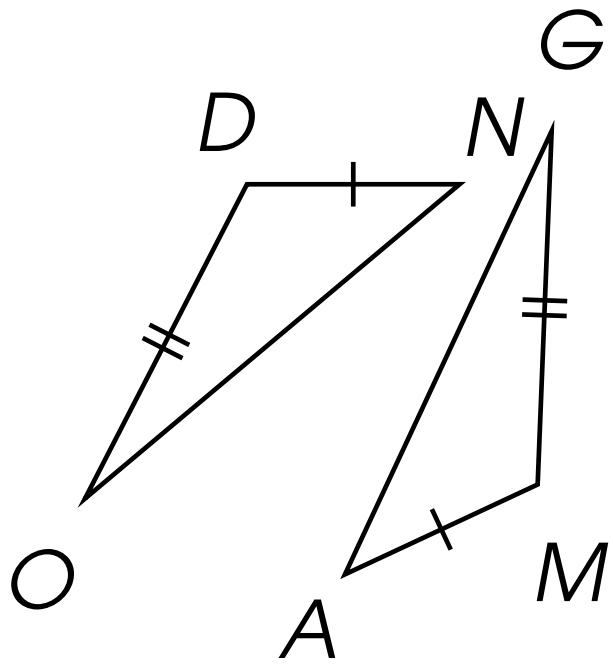

$\overline{DN} \cong \overline{MA}$

$\overline{DO} \cong$

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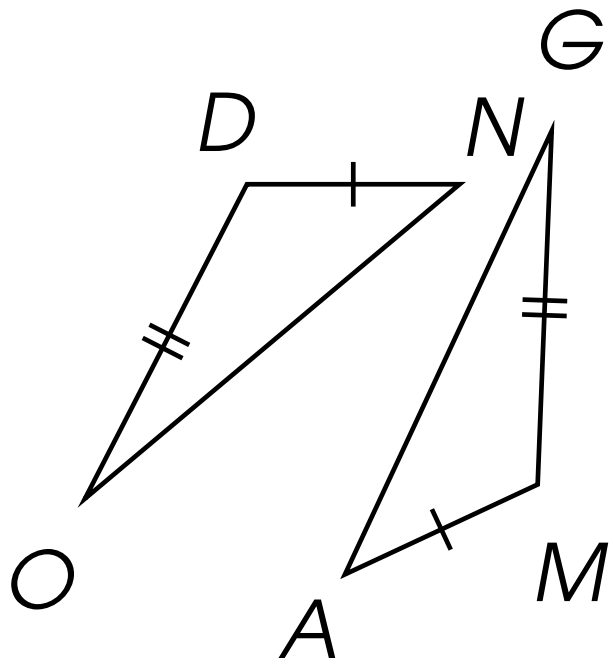

$\overline{DN} \cong \overline{MA}$

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

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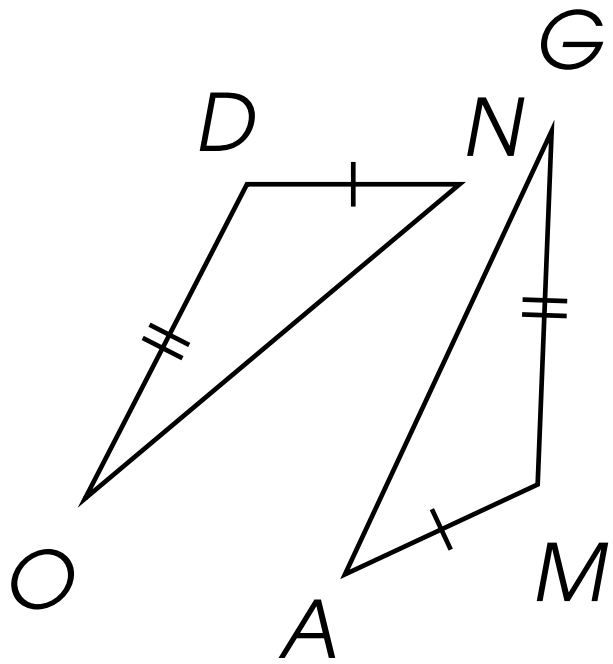

$\overline{DN} \cong \overline{MA}$

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

$\overline{NO} \cong$

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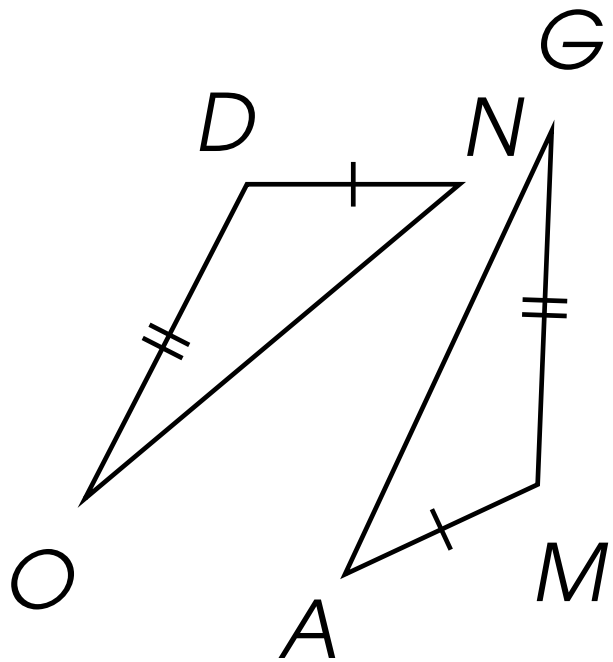

$\overline{DN} \cong \overline{MA}$

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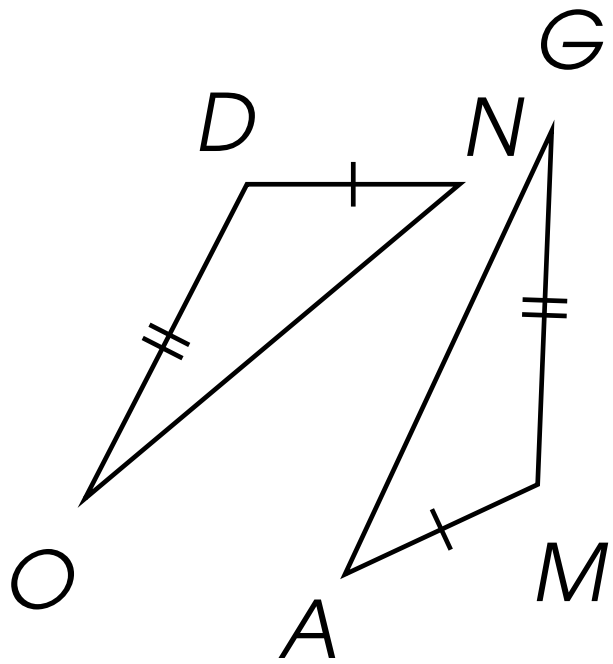

$\overline{DN} \cong \overline{MA}$

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

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$\triangle DON \cong$

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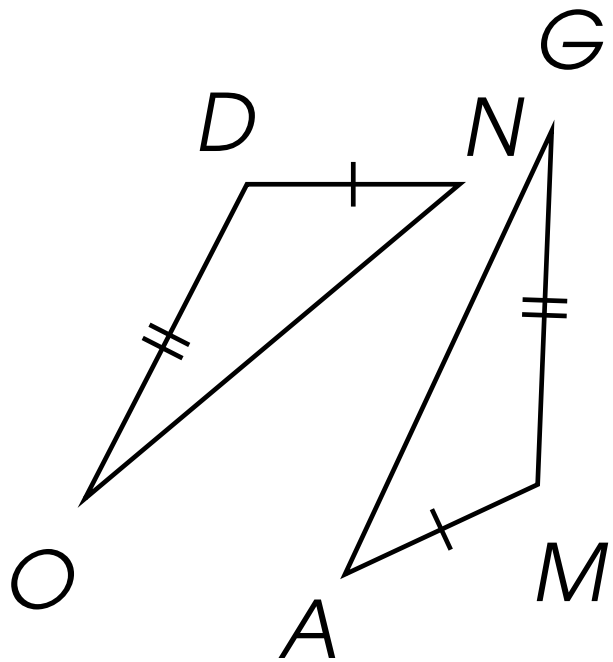


$\overline{DN} \cong \overline{MA}$

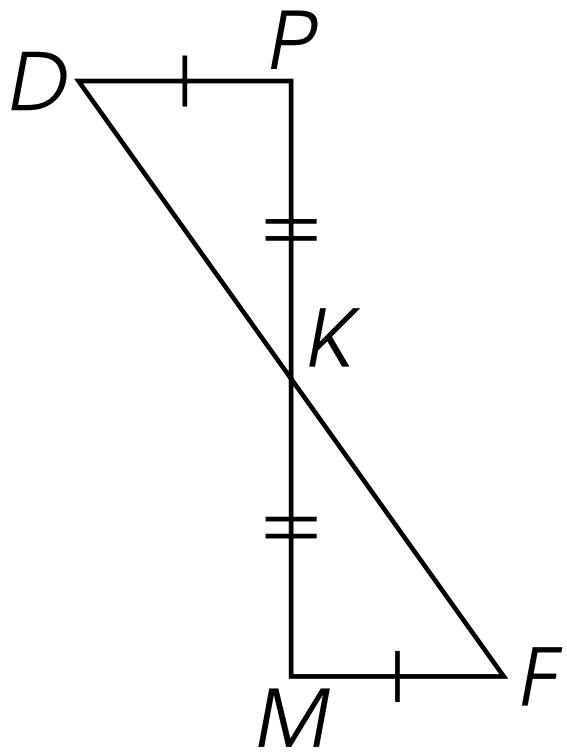
$\overline{DO} \cong \overline{MG}$

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

$\triangle DON \cong \triangle MGA$

Example 2

Complete the statements using the SSS congruence postulate.



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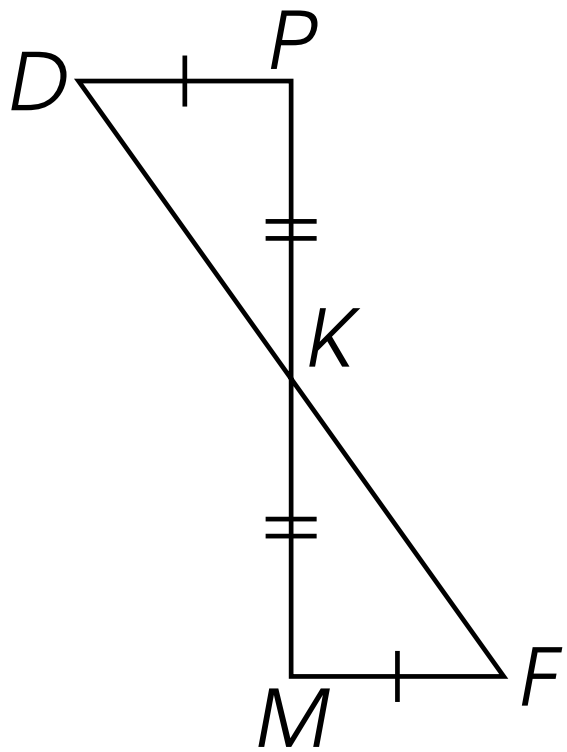

$\overline{DP} \cong$

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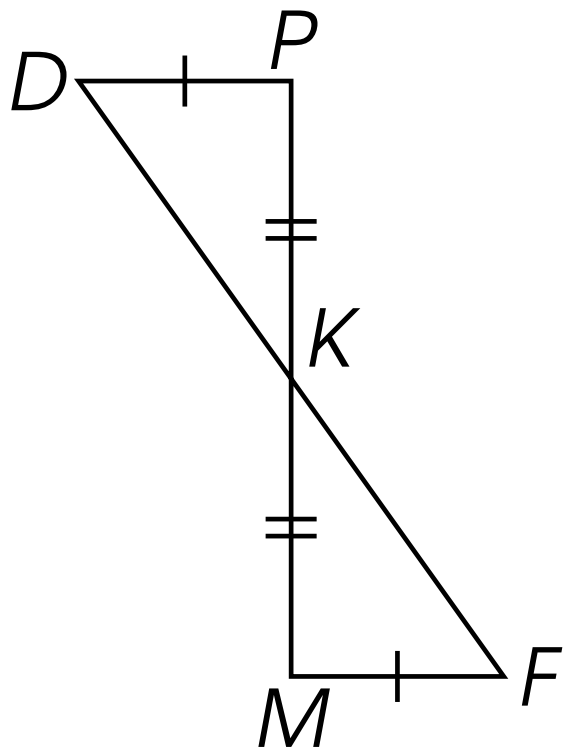

$\overline{DP} \cong \overline{FM}$

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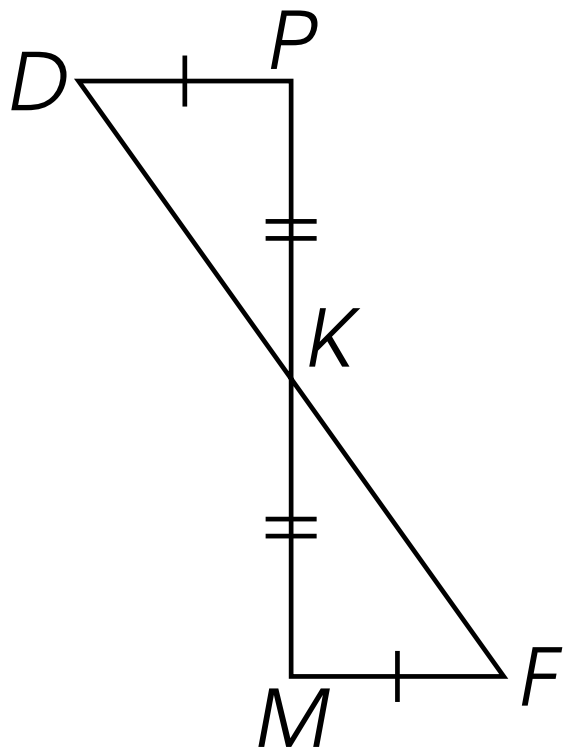

$\overline{DP} \cong \overline{FM}$

$\overline{PK} \cong$

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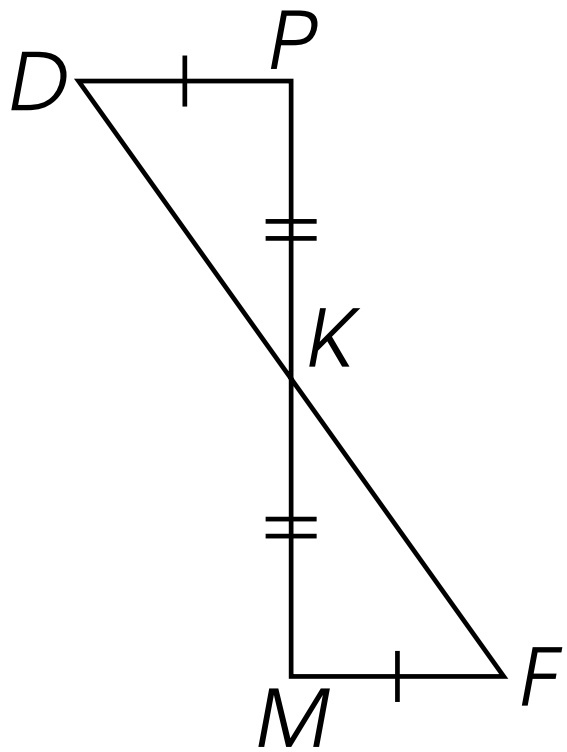

$\overline{DP} \cong \overline{FM}$

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

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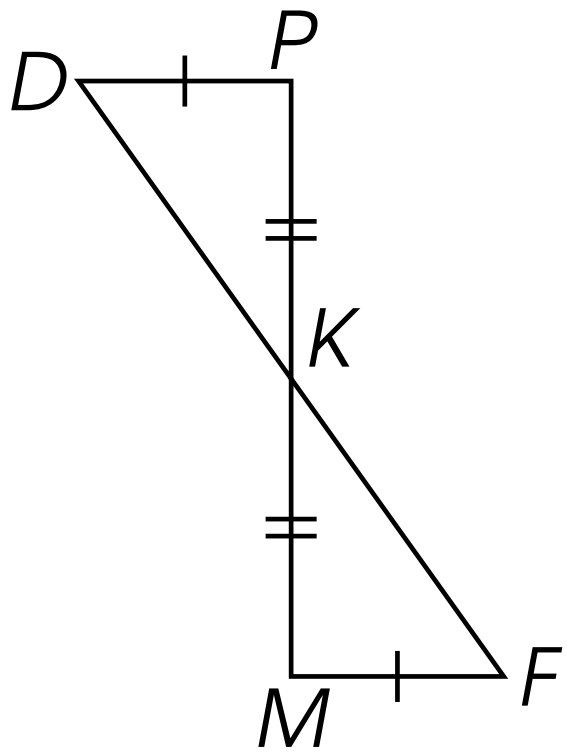

$\overline{DP} \cong \overline{FM}$

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

$\overline{DK} \cong$

Example 2

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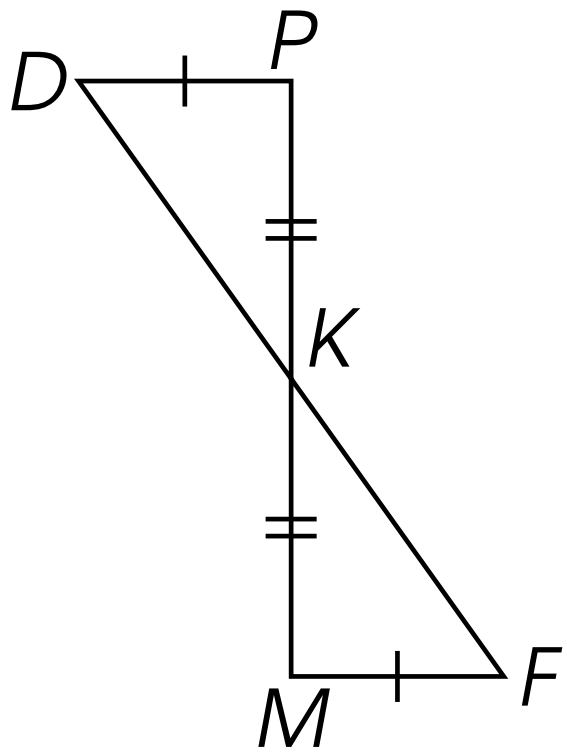

$\overline{DP} \cong \overline{FM}$

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

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

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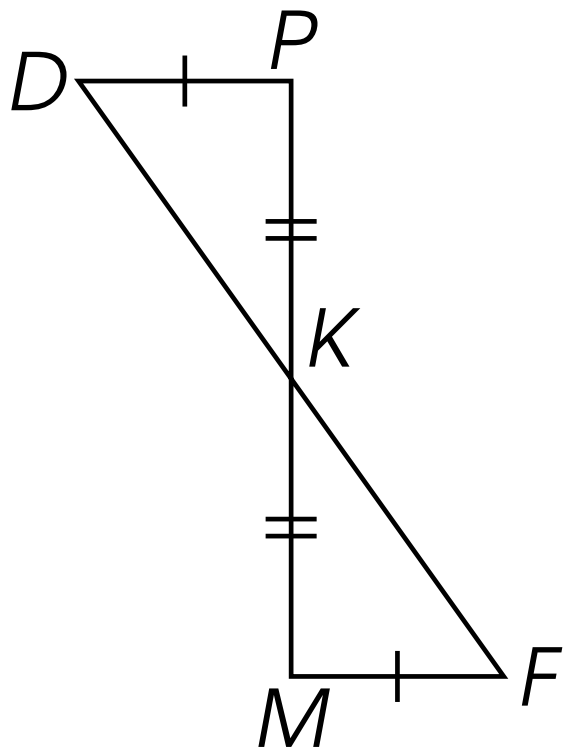

$\overline{DP} \cong \overline{FM}$

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

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

$\triangle DKP \cong$

Example 2

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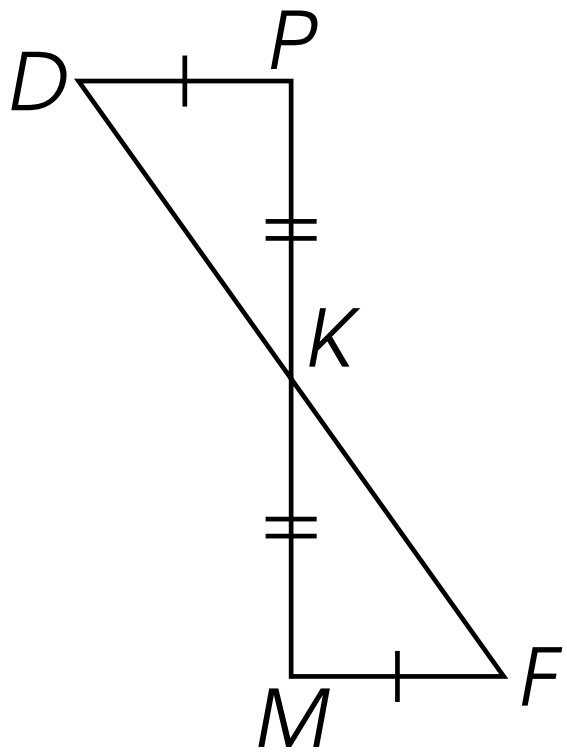


$\overline{DP} \cong \overline{FM}$

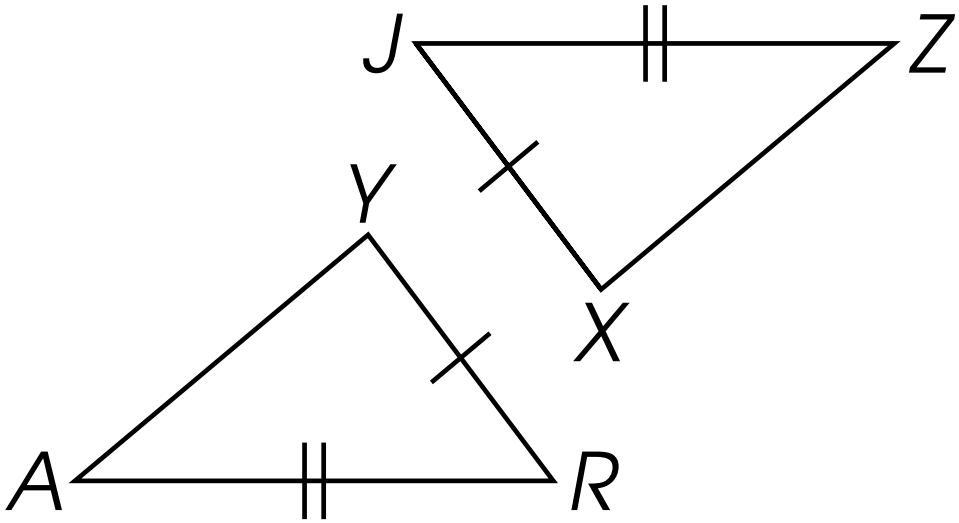
$\overline{PK} \cong \overline{MK}$

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

$\triangle DKP \cong \triangle FKM$

Example 3

Complete the statements using the SSS congruence postulate.



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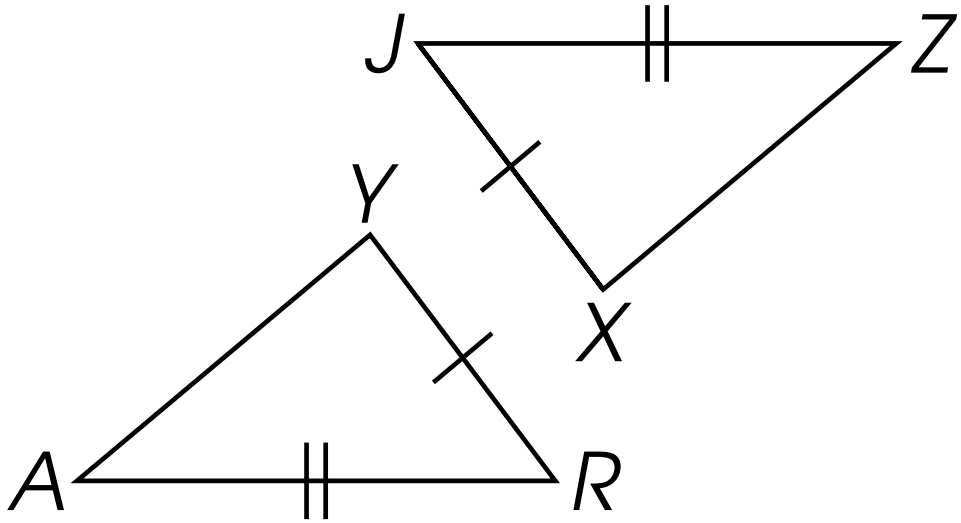

$\overline{YR} \cong$

Example 3

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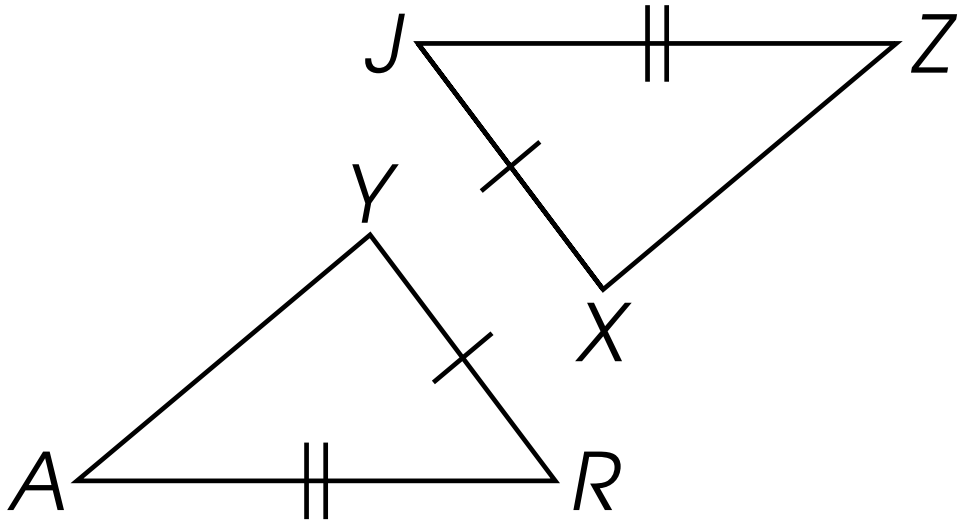

$\overline{YR} \cong \overline{XJ}$

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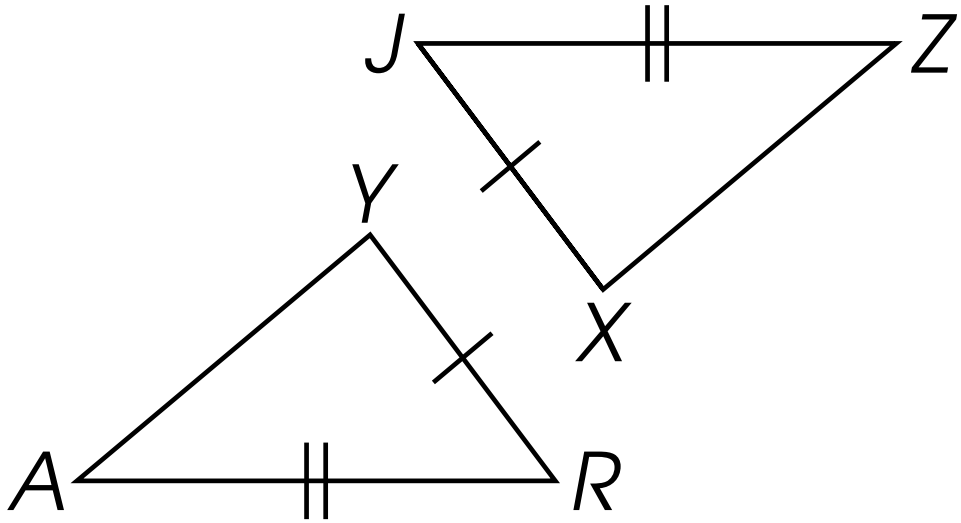

$\overline{YR} \cong \overline{XJ}$

$\overline{AR} \cong$

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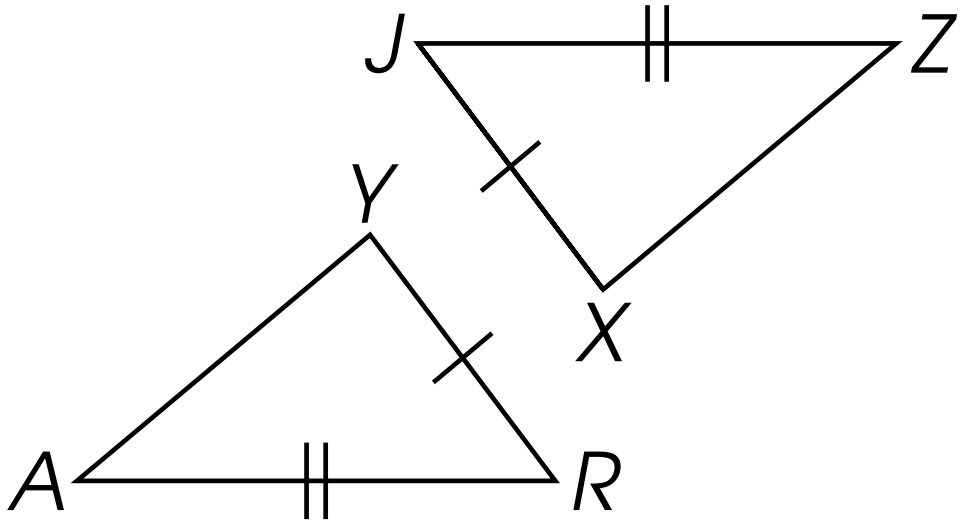

$\overline{YR} \cong \overline{XJ}$

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

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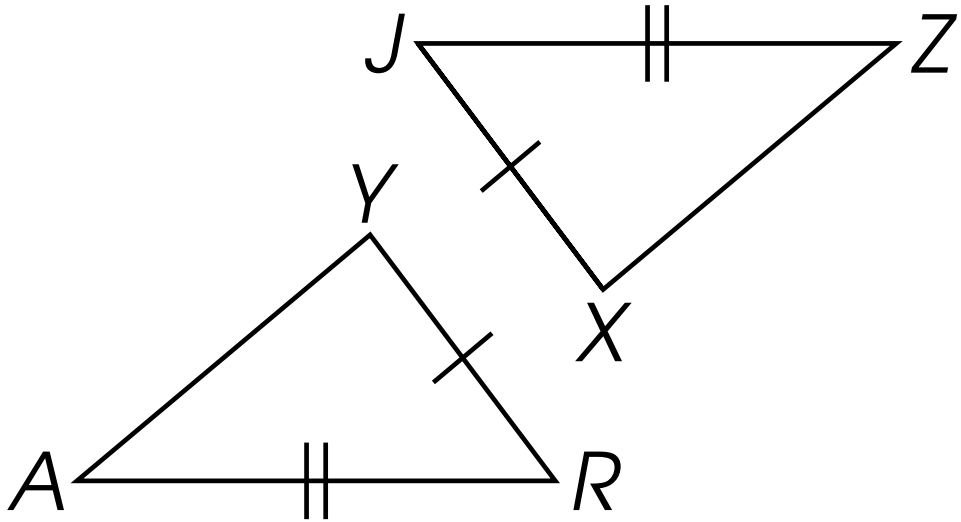

$\overline{YR} \cong \overline{XJ}$

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

$\overline{AY} \cong$

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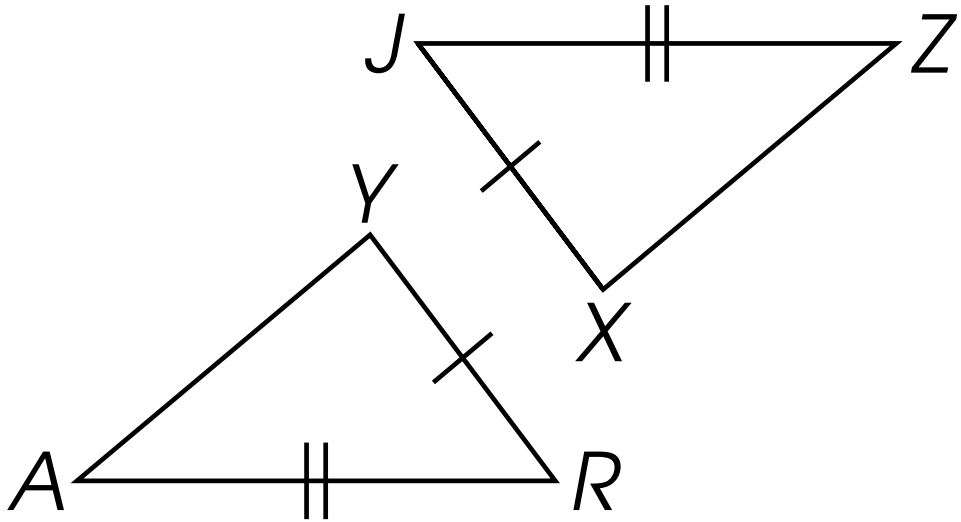

$\overline{YR} \cong \overline{XJ}$

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

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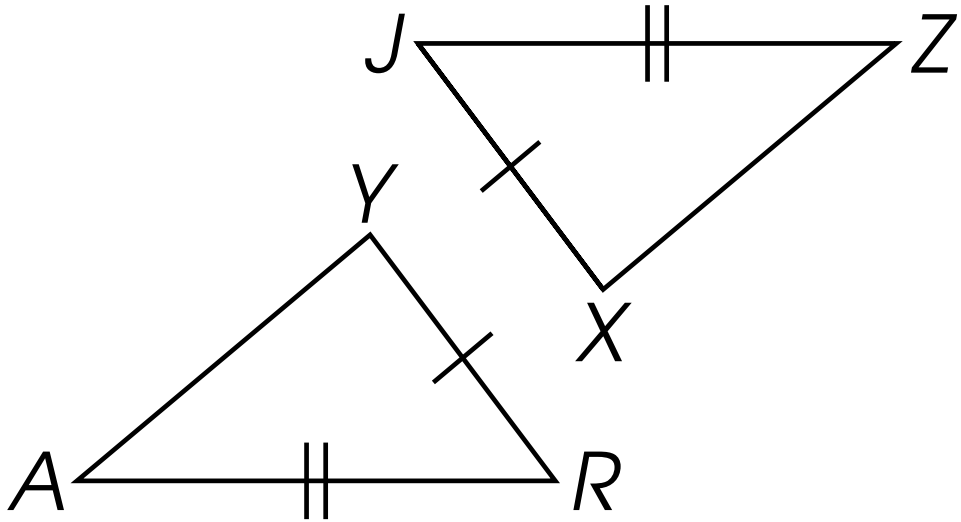

$\overline{YR} \cong \overline{XJ}$

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

$\overline{AY} \cong \overline{ZX}$

$\triangle AYR \cong$

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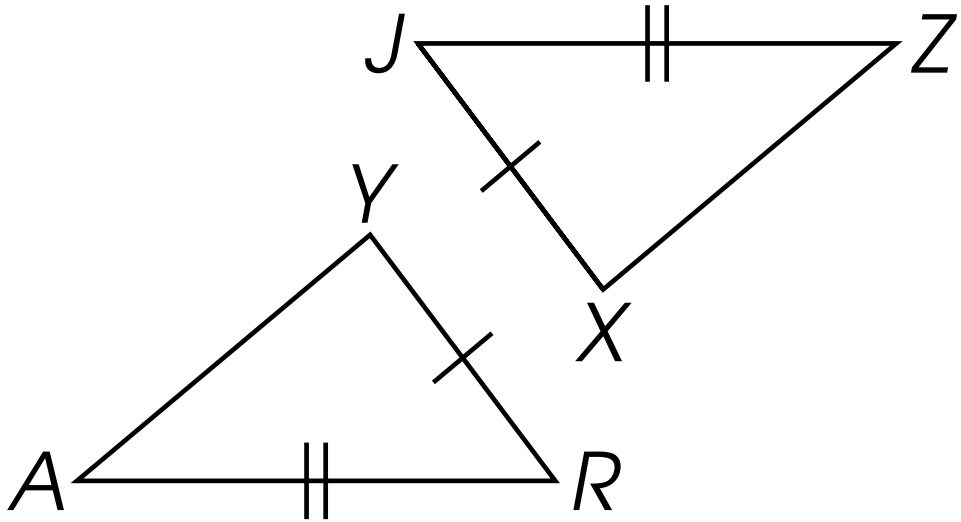

$\overline{YR} \cong \overline{XJ}$

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

$\overline{AY} \cong \overline{ZX}$

$\triangle AYR \cong \triangle ZXJ$

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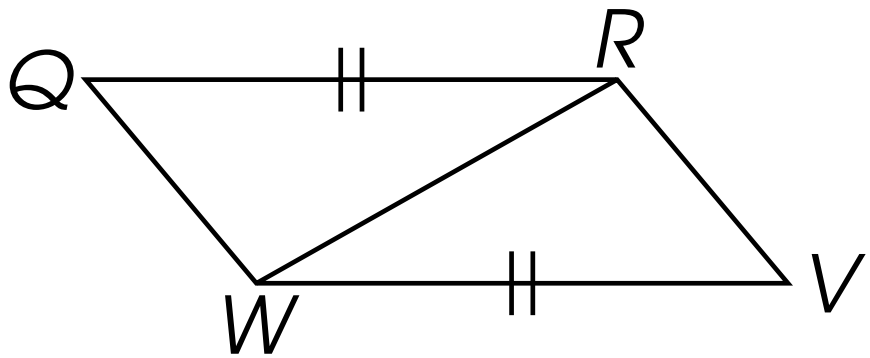

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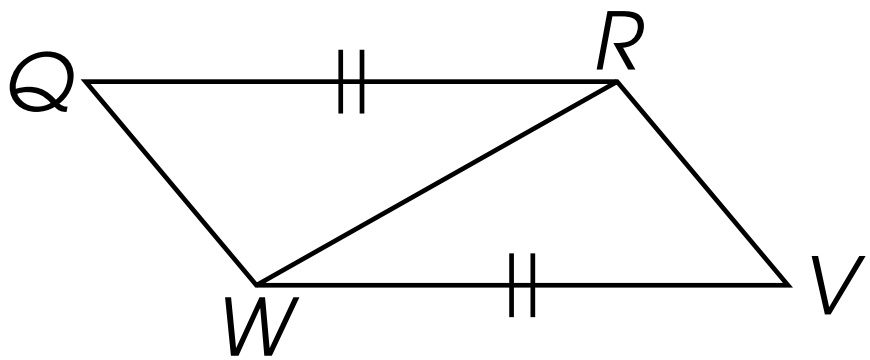

$\overline{RW} \cong$

Example 4

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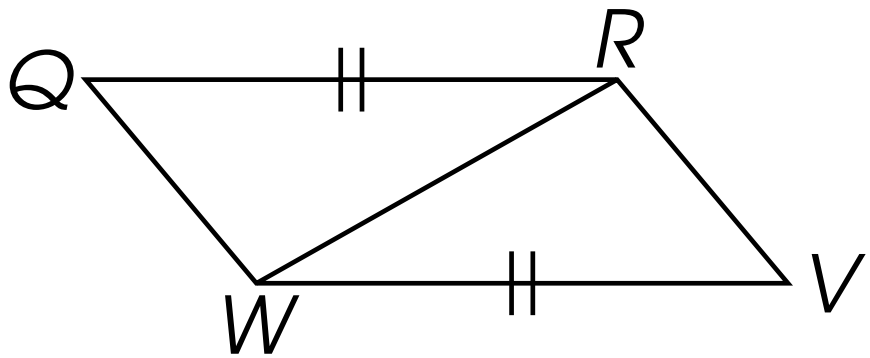

$\overline{RW} \cong \overline{WR}$

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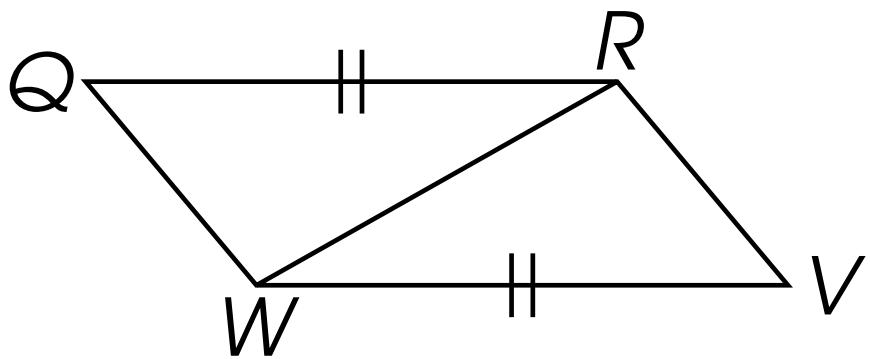

$\overline{RW} \cong \overline{WR}$

$\overline{QR} \cong$

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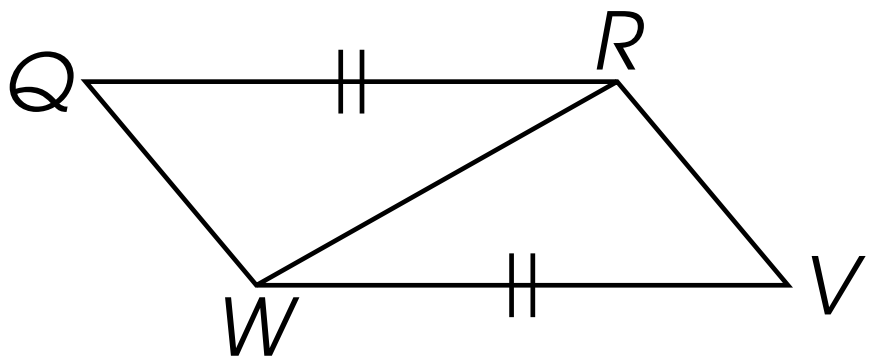

$\overline{RW} \cong \overline{WR}$

$\overline{QR} \cong \overline{VW}$

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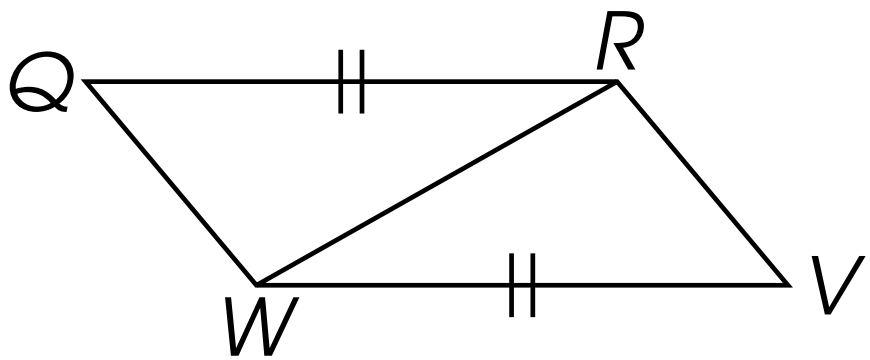

$\overline{RW} \cong \overline{WR}$

$\overline{QR} \cong \overline{VW}$

$\overline{QW} \cong$

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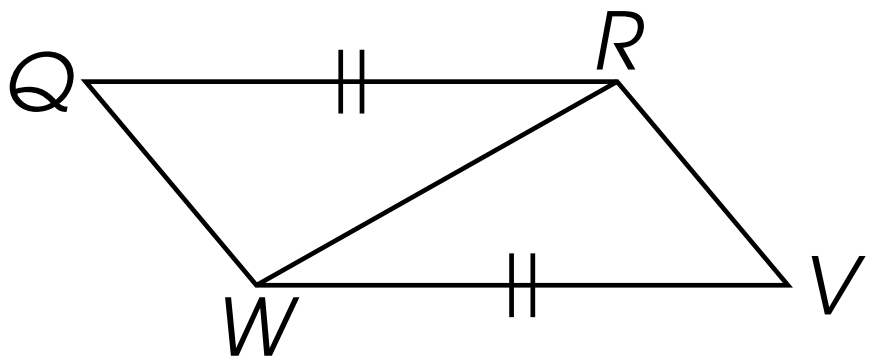

$\overline{RW} \cong \overline{WR}$

$\overline{QR} \cong \overline{VW}$

$\overline{QW} \cong \overline{VR}$

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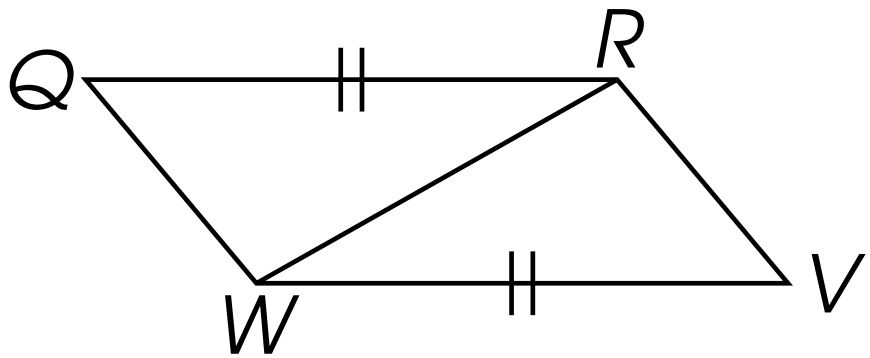

$\overline{RW} \cong \overline{WR}$

$\overline{QR} \cong \overline{VW}$

$\overline{QW} \cong \overline{VR}$

$\triangle QRW \cong$

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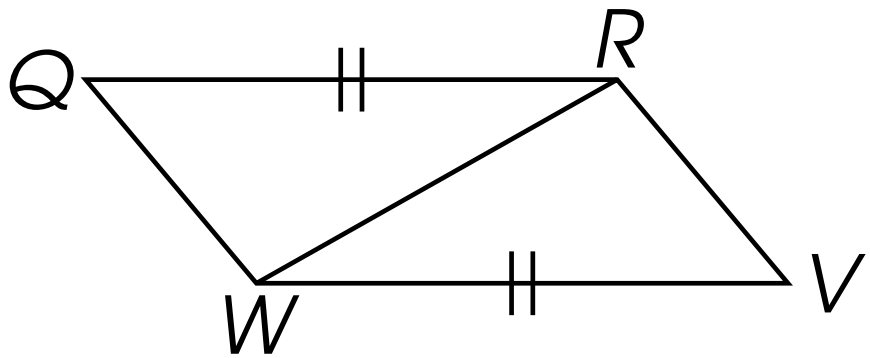


$\overline{RW} \cong \overline{WR}$

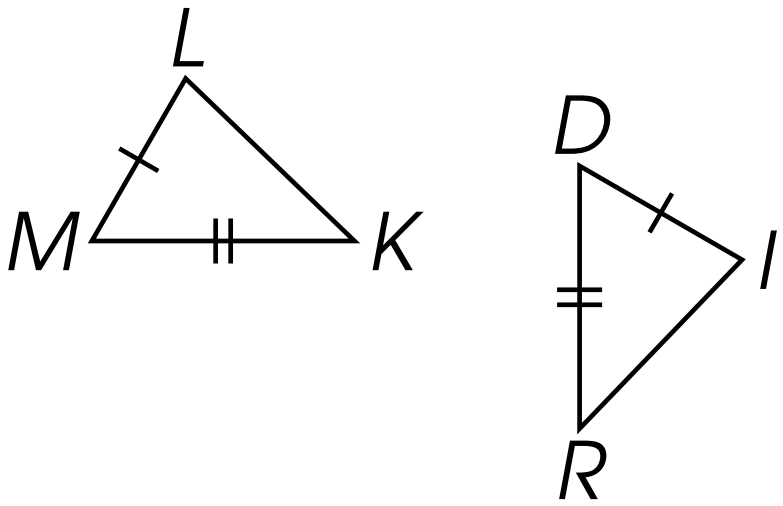
$\overline{QR} \cong \overline{VW}$

$\overline{QW} \cong \overline{VR}$

$\triangle QRW \cong \triangle VWR$

Example 5

Complete the statements using the SSS congruence postulate.



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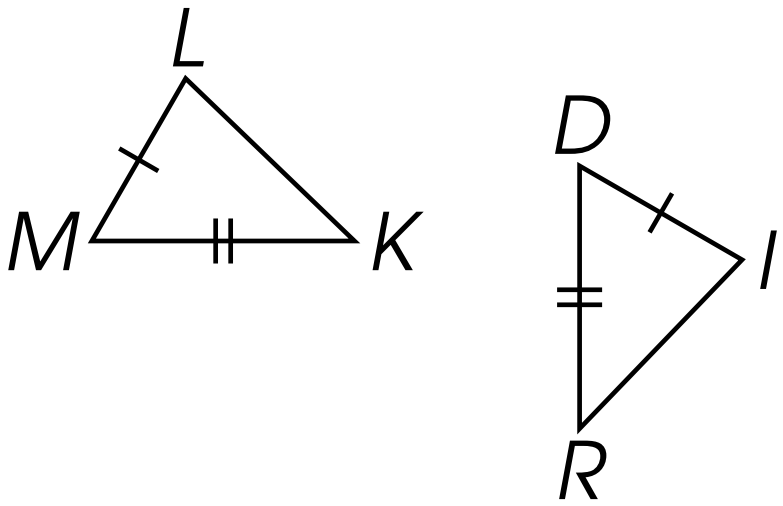

$\overline{LM} \cong$

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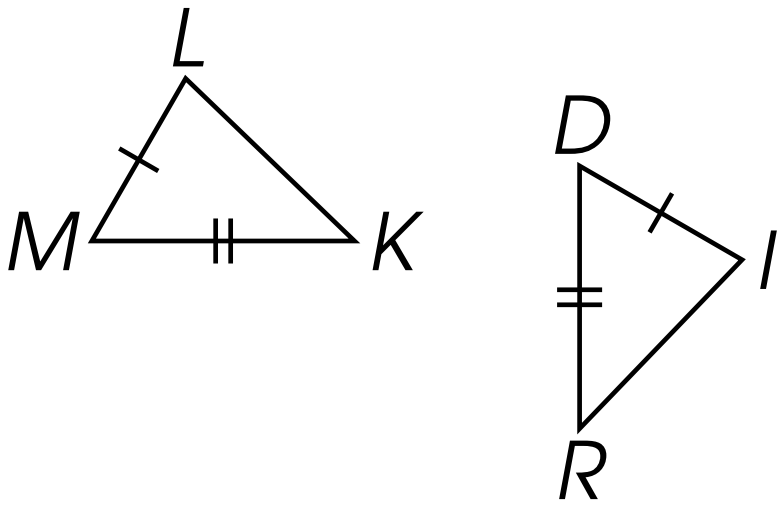

$\overline{LM} \cong \overline{ID}$

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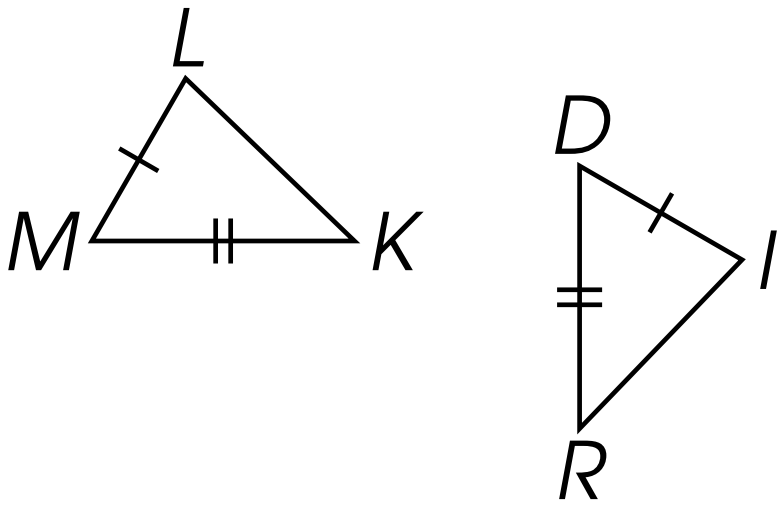
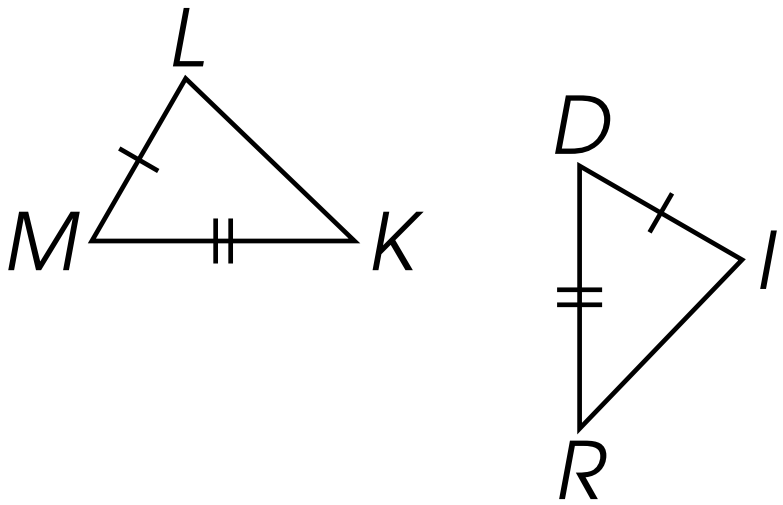


$\overline{LM} \cong \overline{ID}$

$\overline{KM} \cong$

Example 5

Complete the statements using the SSS congruence postulate.



$\overline{LM} \cong \overline{ID}$

$\overline{KM} \cong \overline{RD}$

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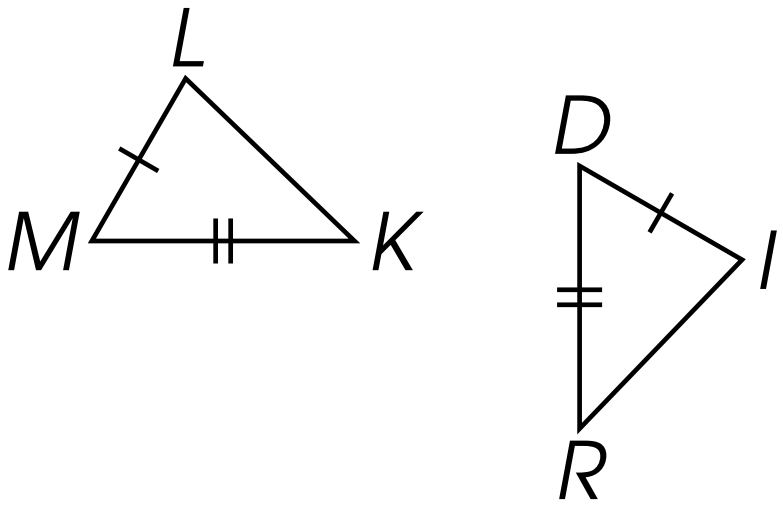

$\overline{LM} \cong \overline{ID}$

$\overline{KM} \cong \overline{RD}$

$\overline{LK} \cong$

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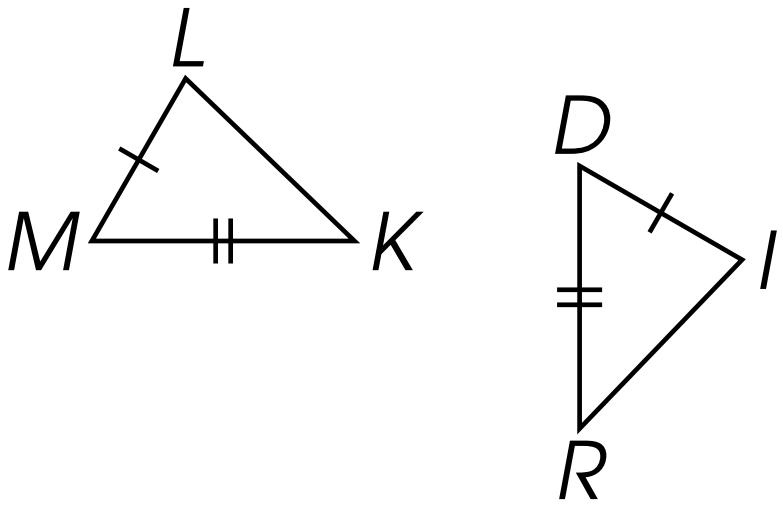

$\overline{LM} \cong \overline{ID}$

$\overline{KM} \cong \overline{RD}$

$\overline{LK} \cong \overline{IR}$

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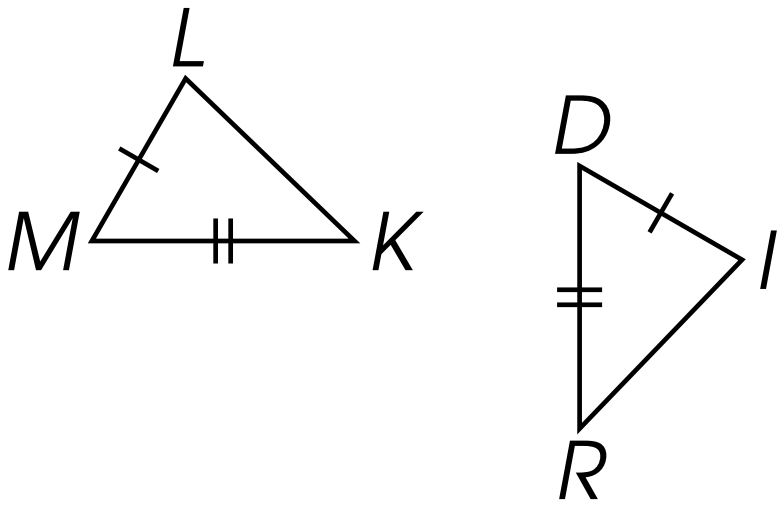

$\overline{LM} \cong \overline{ID}$

$\overline{KM} \cong \overline{RD}$

$\overline{LK} \cong \overline{IR}$

$\triangle KLM \cong$

Example 5

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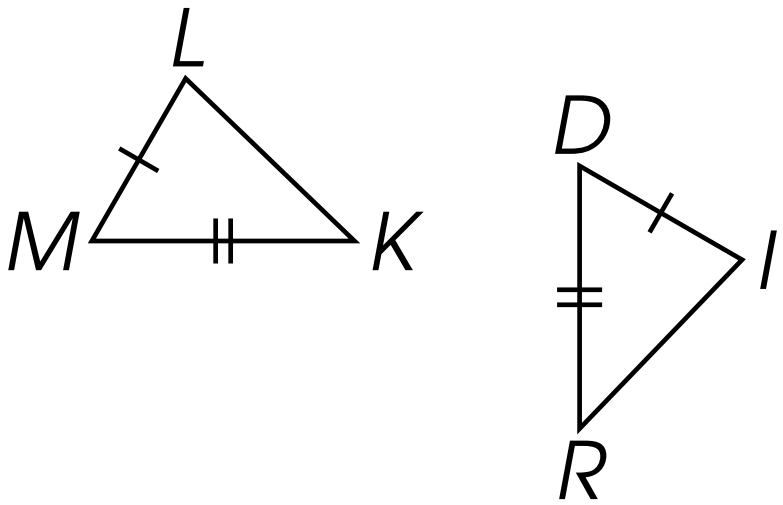


$\overline{LM} \cong \overline{ID}$

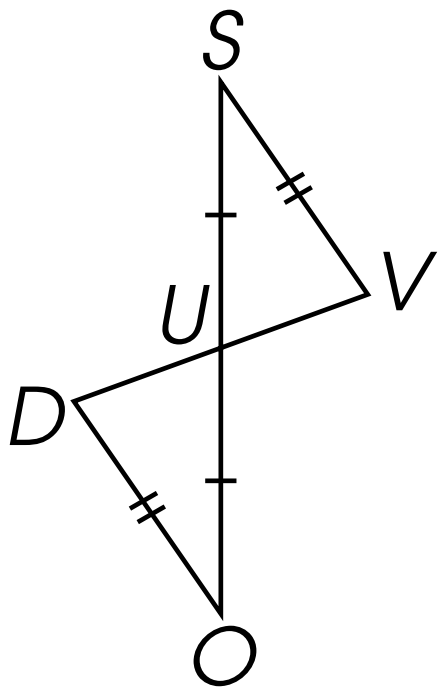
$\overline{KM} \cong \overline{RD}$

$\overline{LK} \cong \overline{IR}$

$\triangle KLM \cong \triangle RID$

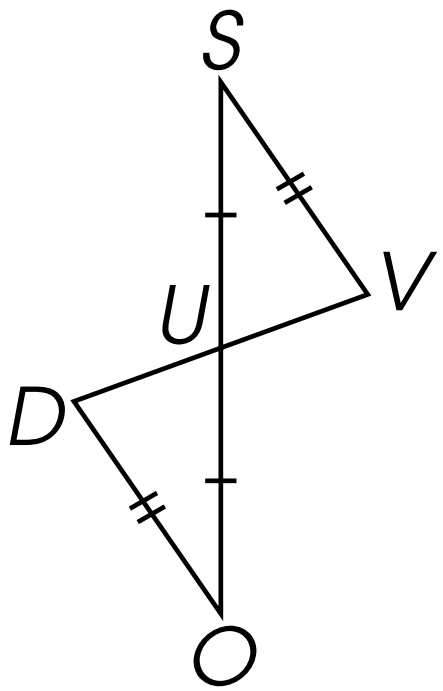
Example 6

Complete the statements using the SSS congruence postulate.



Example 6

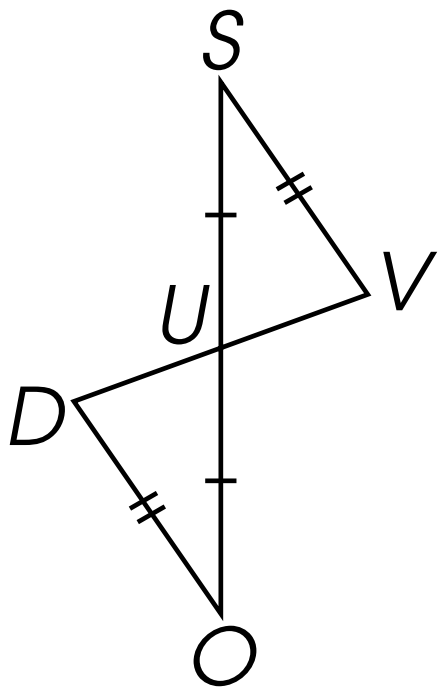
Complete the statements using the SSS congruence postulate.



$\overline{UO} \cong$

Example 6

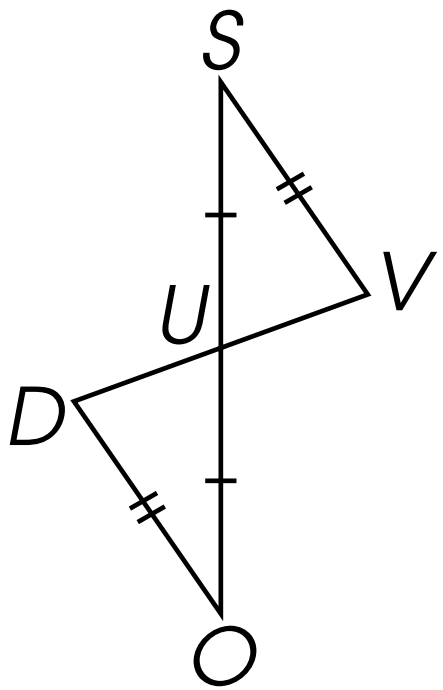
Complete the statements using the SSS congruence postulate.



$\overline{UO} \cong \overline{US}$

Example 6

Complete the statements using the SSS congruence postulate.

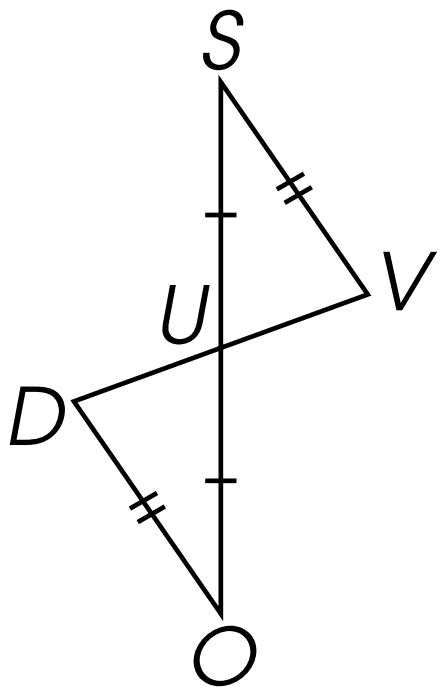


$\overline{UO} \cong \overline{US}$

$\overline{DO} \cong$

Example 6

Complete the statements using the SSS congruence postulate.

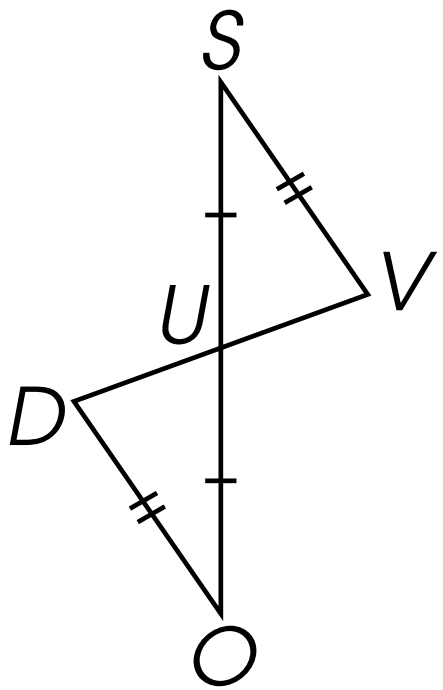


$\overline{UO} \cong \overline{US}$

$\overline{DO} \cong \overline{VS}$

Example 6

Complete the statements using the SSS congruence postulate.



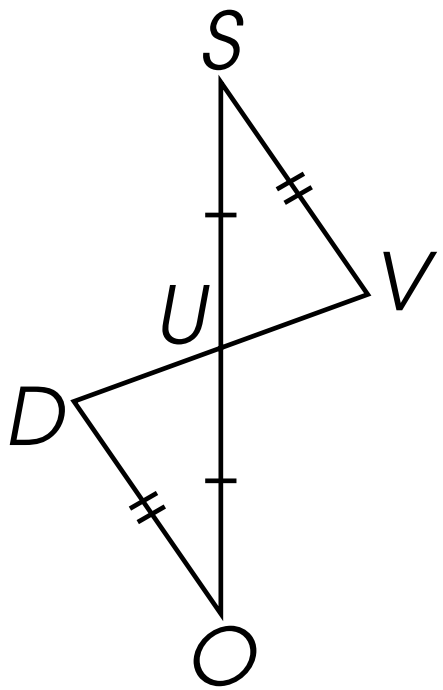
$\overline{UO} \cong \overline{US}$

$\overline{DO} \cong \overline{VS}$

$\overline{UD} \cong$

Example 6

Complete the statements using the SSS congruence postulate.



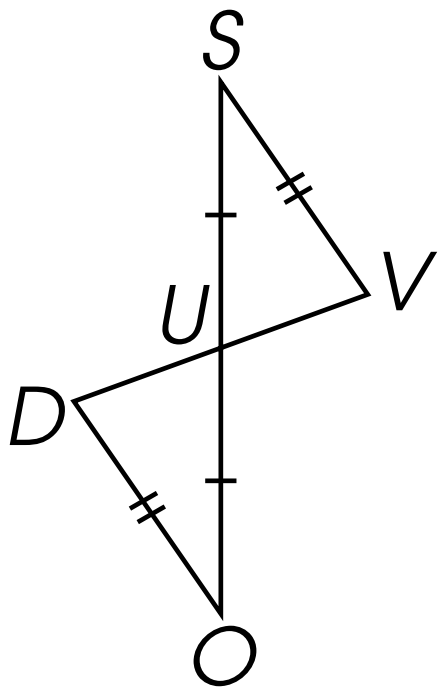
$\overline{UO} \cong \overline{US}$

$\overline{DO} \cong \overline{VS}$

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

Example 6

Complete the statements using the SSS congruence postulate.



$\overline{UO} \cong \overline{US}$

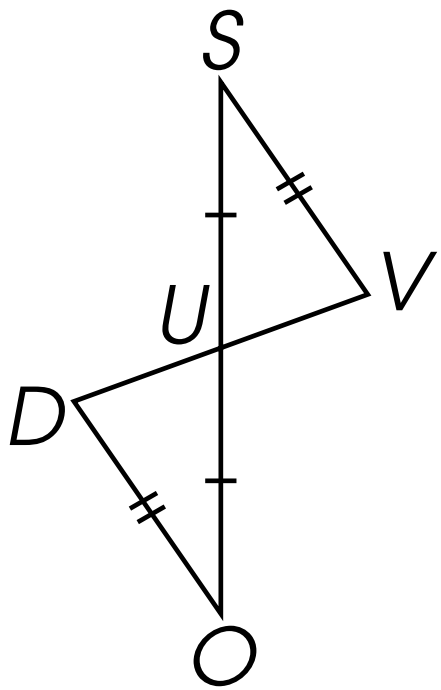
$\overline{DO} \cong \overline{VS}$

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

$\triangle DUO \cong$

Example 6

Complete the statements using the SSS congruence postulate.



$\overline{UO} \cong \overline{US}$

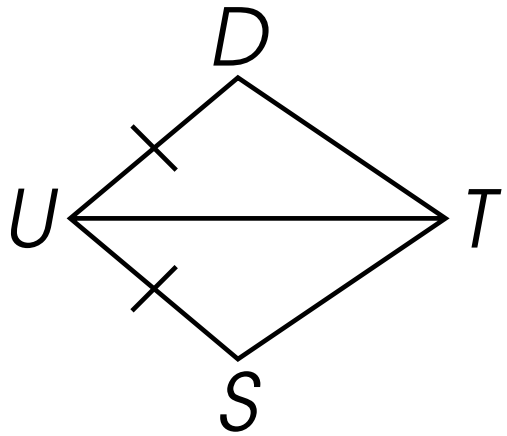
$\overline{DO} \cong \overline{VS}$

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

$\triangle DUO \cong \triangle VUS$

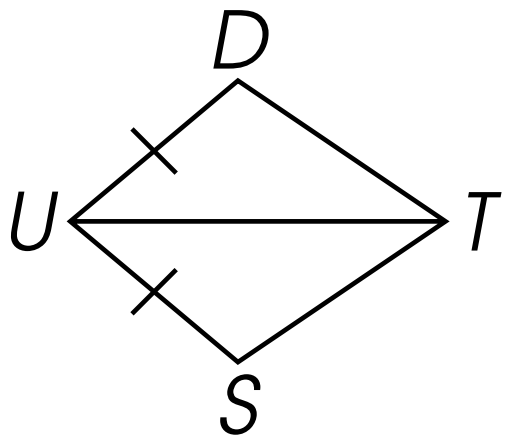
Example 7

Complete the statements using the SSS congruence postulate.



Example 7

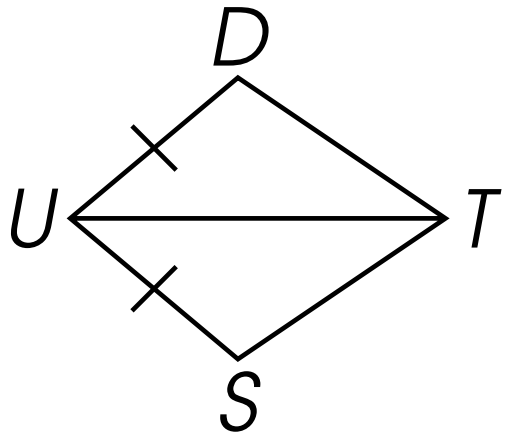
Complete the statements using the SSS congruence postulate.



$\overline{UT} \cong$

Example 7

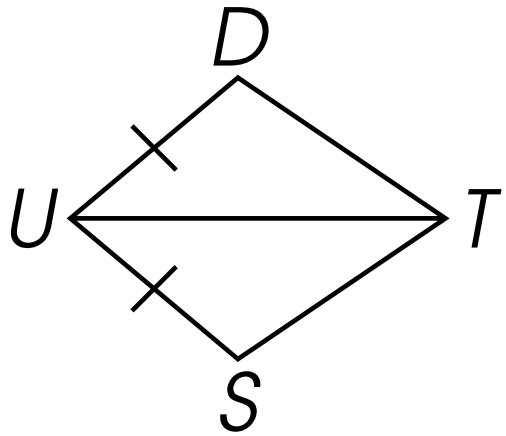
Complete the statements using the SSS congruence postulate.



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

Example 7

Complete the statements using the SSS congruence postulate.

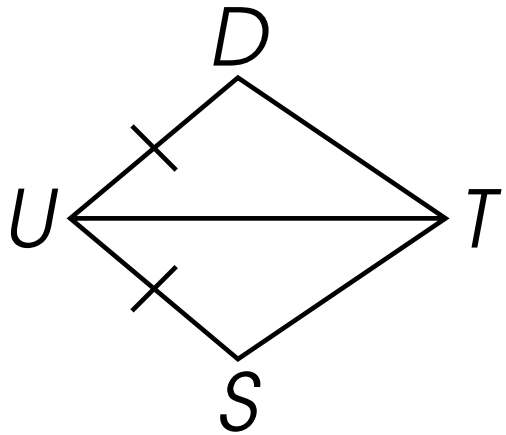


$\overline{UT} \cong \overline{UT}$

$\overline{DU} \cong$

Example 7

Complete the statements using the SSS congruence postulate.

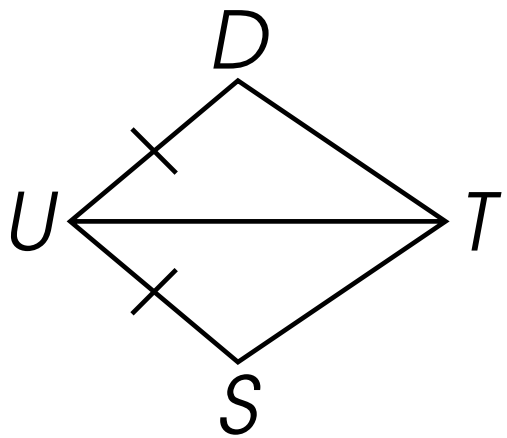


$\overline{UT} \cong \overline{UT}$

$\overline{DU} \cong \overline{SU}$

Example 7

Complete the statements using the SSS congruence postulate.



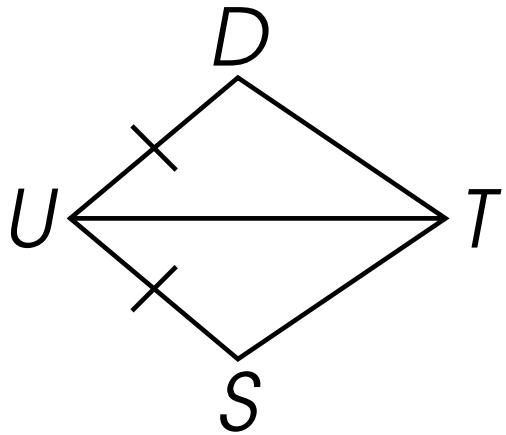
$\overline{UT} \cong \overline{UT}$

$\overline{DU} \cong \overline{SU}$

$\overline{DT} \cong$

Example 7

Complete the statements using the SSS congruence postulate.



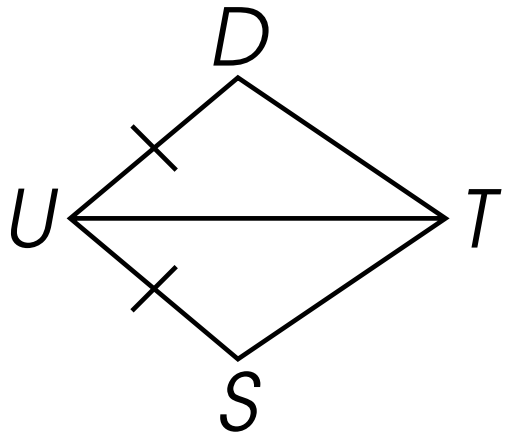
$\overline{UT} \cong \overline{UT}$

$\overline{DU} \cong \overline{SU}$

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

Example 7

Complete the statements using the SSS congruence postulate.



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

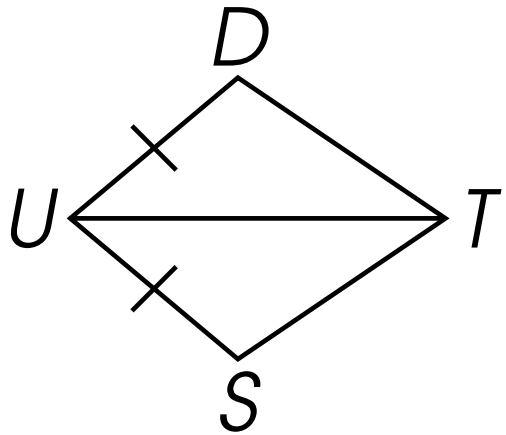
$\overline{DU} \cong \overline{SU}$

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

$\triangle DTU \cong$

Example 7

Complete the statements using the SSS congruence postulate.



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

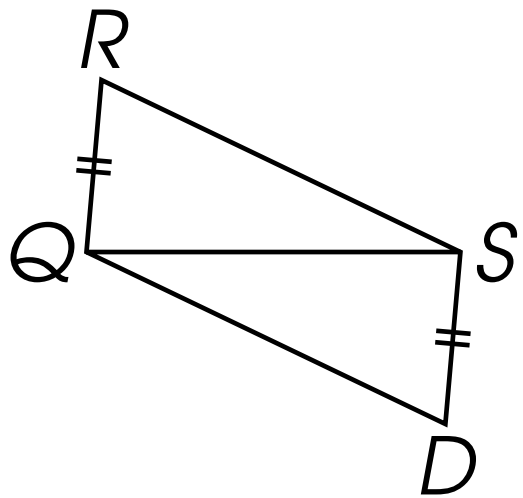
$\overline{DU} \cong \overline{SU}$

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

$\triangle DTU \cong \triangle STU$

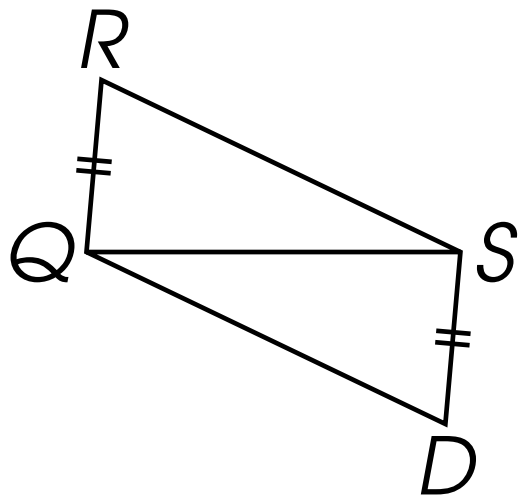
Example 8

Complete the statements using the SSS congruence postulate.



Example 8

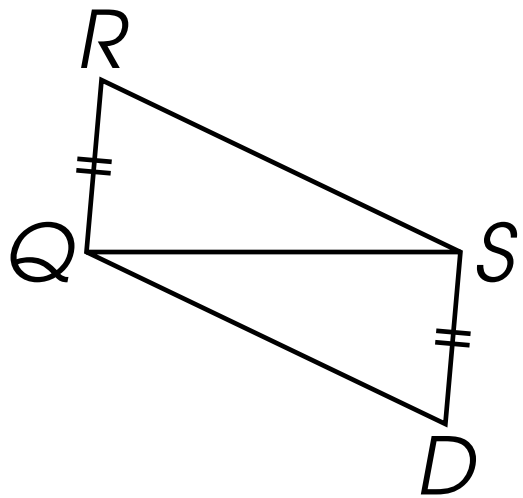
Complete the statements using the SSS congruence postulate.



$\overline{QS} \cong$

Example 8

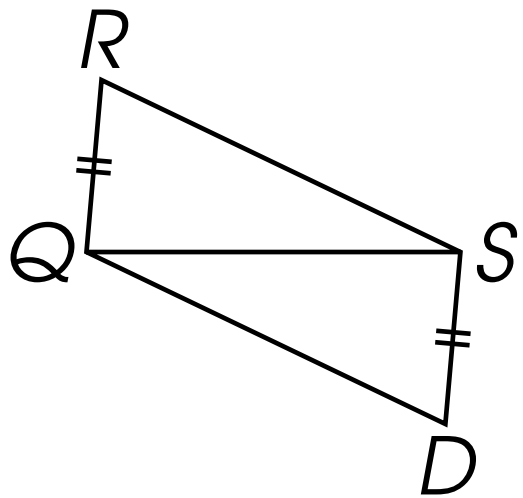
Complete the statements using the SSS congruence postulate.



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

Example 8

Complete the statements using the SSS congruence postulate.

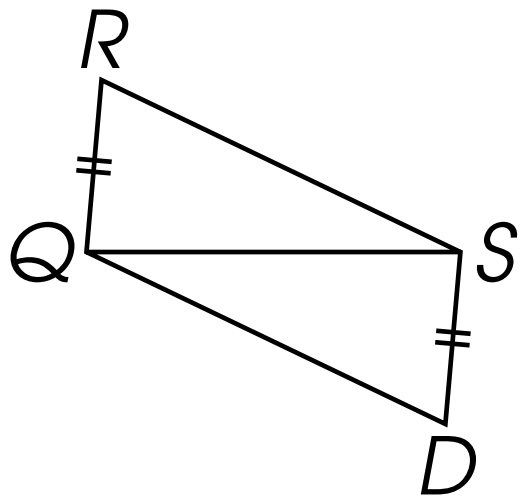


$\overline{QS} \cong \overline{SQ}$

$\overline{RQ} \cong$

Example 8

Complete the statements using the SSS congruence postulate.

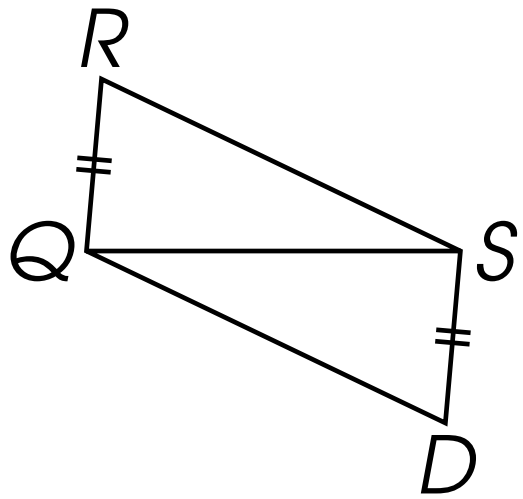


$\overline{QS} \cong \overline{SQ}$

$\overline{RQ} \cong \overline{DS}$

Example 8

Complete the statements using the SSS congruence postulate.



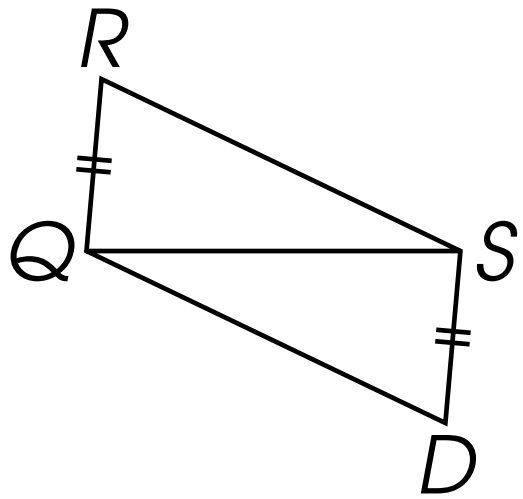
$\overline{QS} \cong \overline{SQ}$

$\overline{RQ} \cong \overline{DS}$

$\overline{RS} \cong$

Example 8

Complete the statements using the SSS congruence postulate.



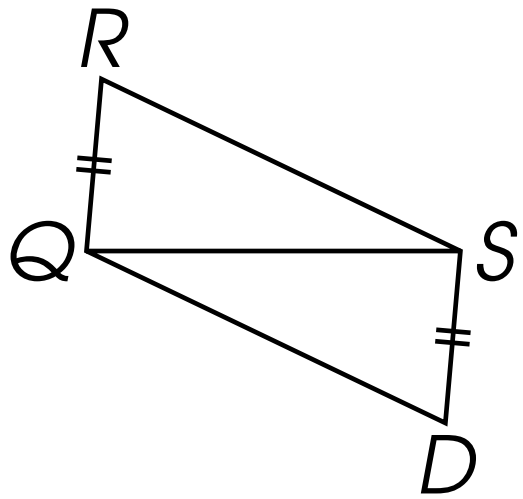
$\overline{QS} \cong \overline{SQ}$

$\overline{RS} \cong \overline{DQ}$

$\overline{RQ} \cong \overline{DS}$

Example 8

Complete the statements using the SSS congruence postulate.



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

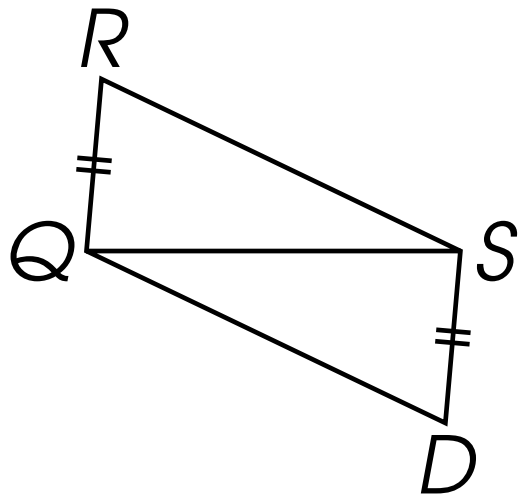
$\overline{RQ} \cong \overline{DS}$

$\overline{RS} \cong \overline{DQ}$

$\triangle RQS \cong$

Example 8

Complete the statements using the SSS congruence postulate.



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

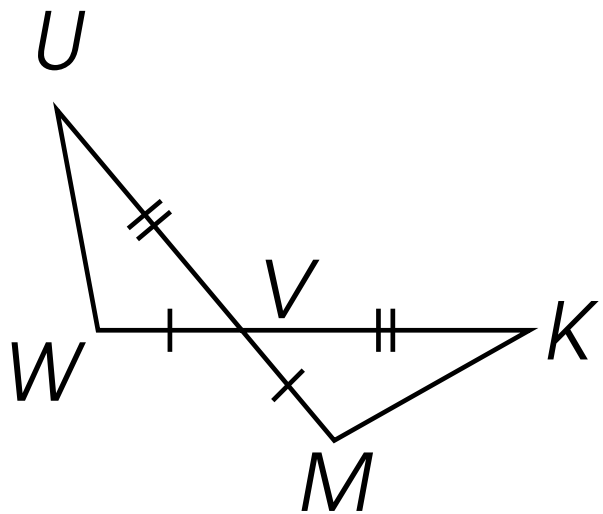
$\overline{RQ} \cong \overline{DS}$

$\overline{RS} \cong \overline{DQ}$

$\triangle RQS \cong \triangle DSQ$

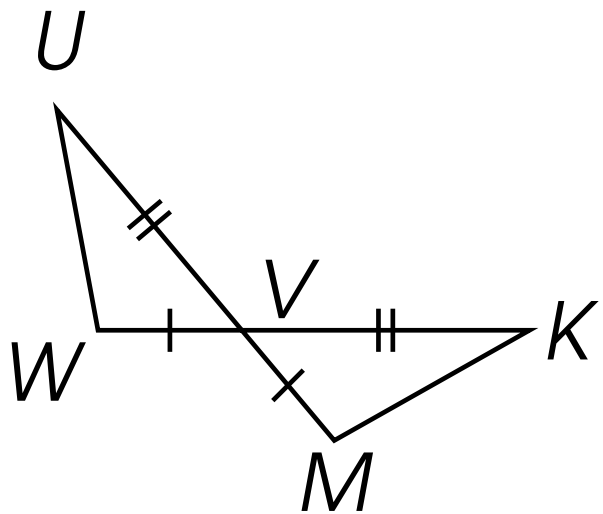
Example 9

Complete the statements using the SSS congruence postulate.



Example 9

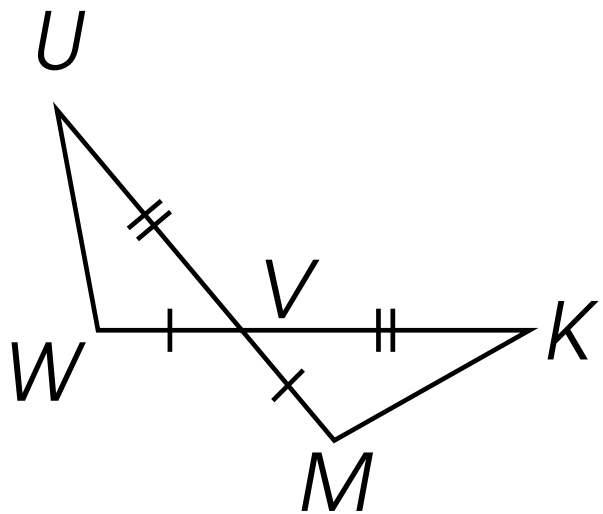
Complete the statements using the SSS congruence postulate.



$\overline{VW} \cong$

Example 9

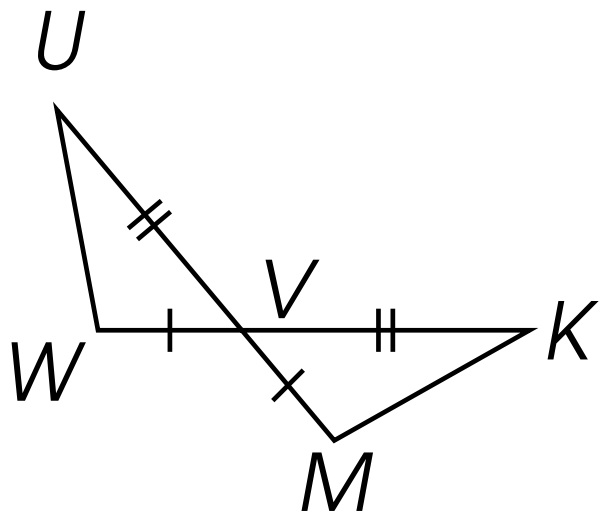
Complete the statements using the SSS congruence postulate.



$\overline{VW} \cong \overline{VM}$

Example 9

Complete the statements using the SSS congruence postulate.

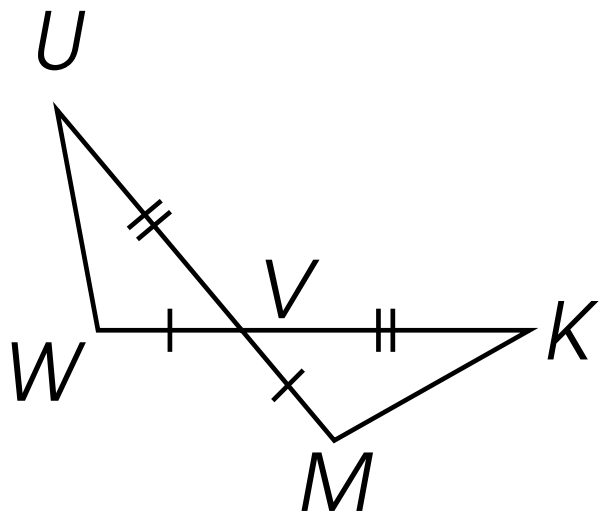


$\overline{VW} \cong \overline{VM}$

$\overline{UV} \cong$

Example 9

Complete the statements using the SSS congruence postulate.

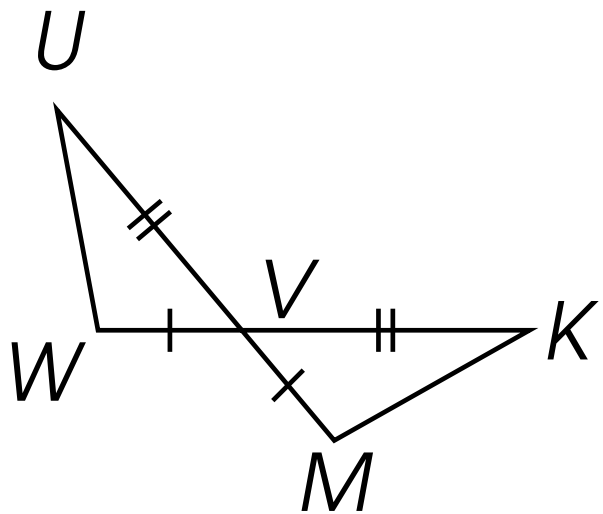


$\overline{VW} \cong \overline{VM}$

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

Example 9

Complete the statements using the SSS congruence postulate.



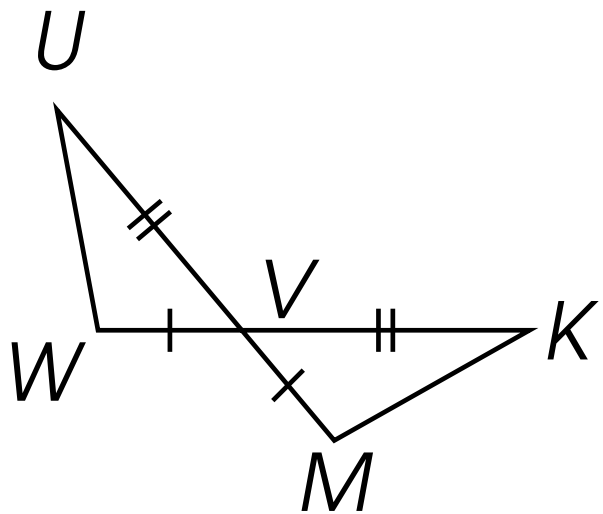
$\overline{VW} \cong \overline{VM}$

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

$\overline{UW} \cong$

Example 9

Complete the statements using the SSS congruence postulate.



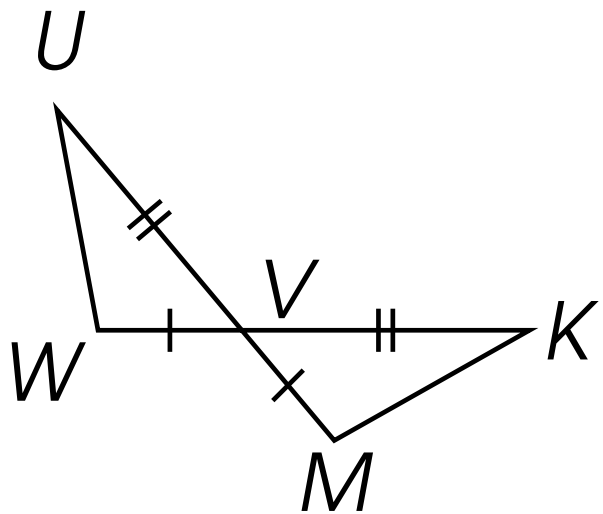
$\overline{VW} \cong \overline{VM}$

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

$\overline{UW} \cong \overline{KM}$

Example 9

Complete the statements using the SSS congruence postulate.



$\overline{VW} \cong \overline{VM}$

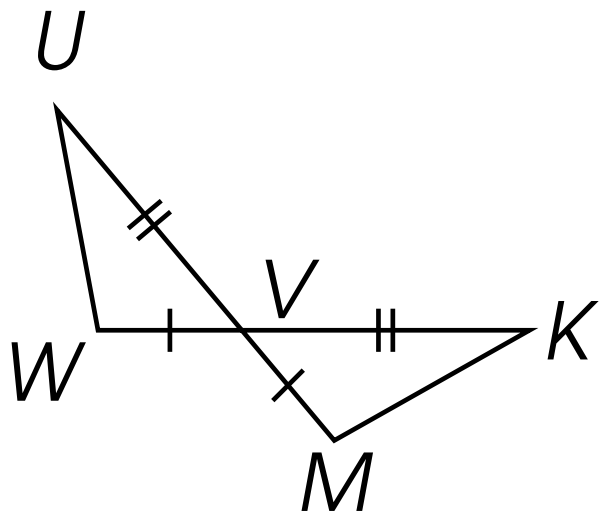
$\overline{UV} \cong \overline{KV}$

$\overline{UW} \cong \overline{KM}$

$\triangle UVW \cong$

Example 9

Complete the statements using the SSS congruence postulate.



$\overline{VW} \cong \overline{VM}$

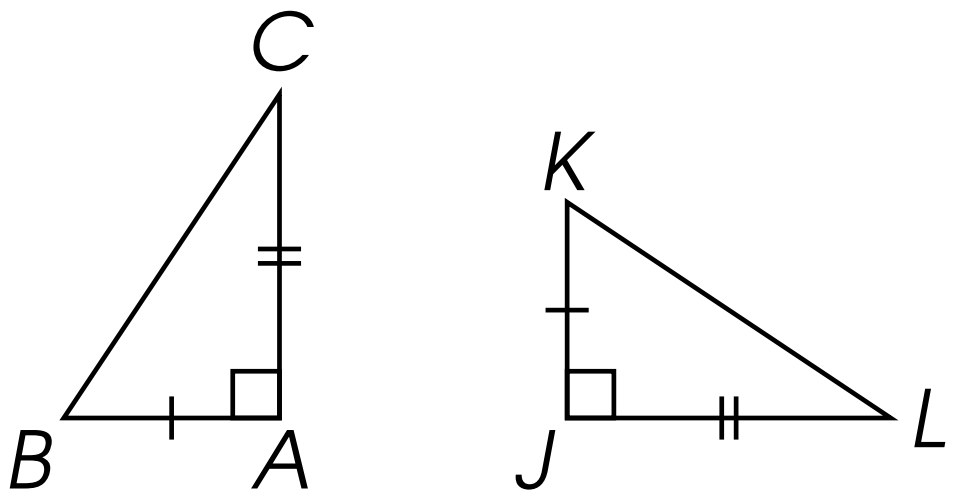
$\overline{UV} \cong \overline{KV}$

$\overline{UW} \cong \overline{KM}$

$\triangle UVW \cong \triangle KVM$

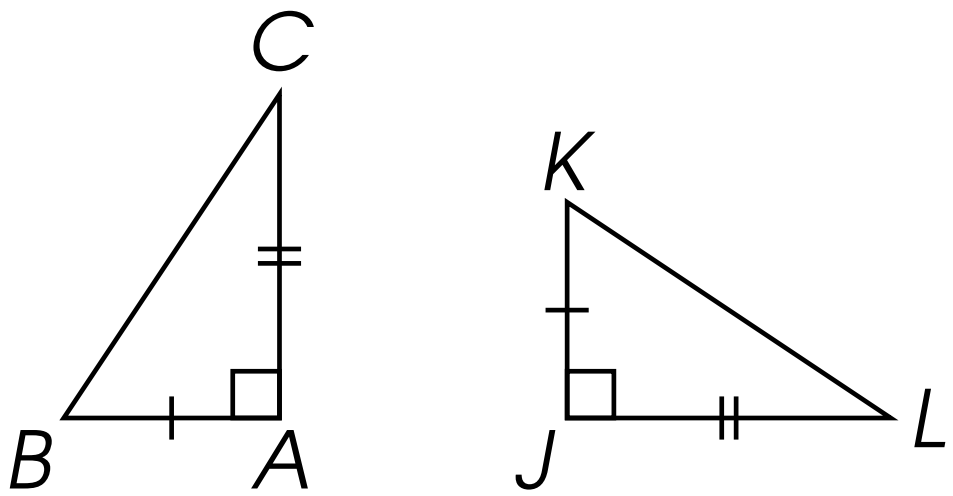
Example 10

Complete the statements using the SSS congruence postulate.



Example 10

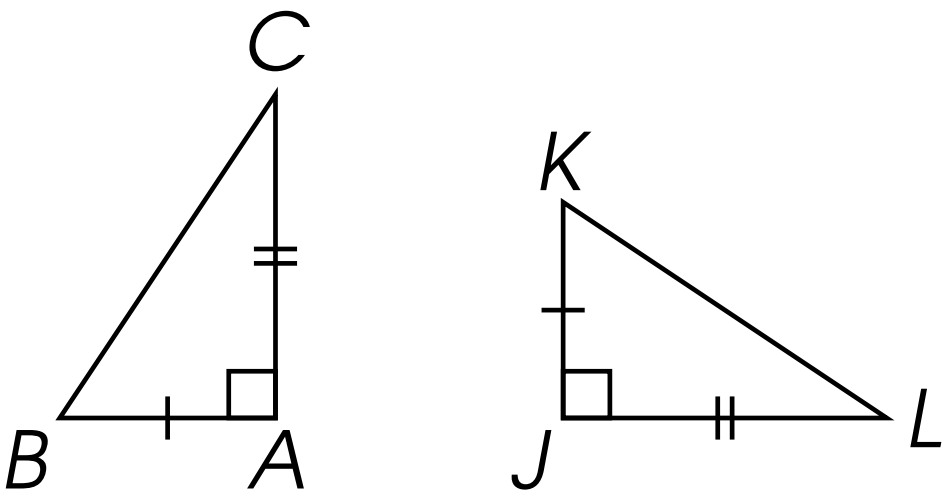
Complete the statements using the SSS congruence postulate.



$\overline{AB} \cong$

Example 10

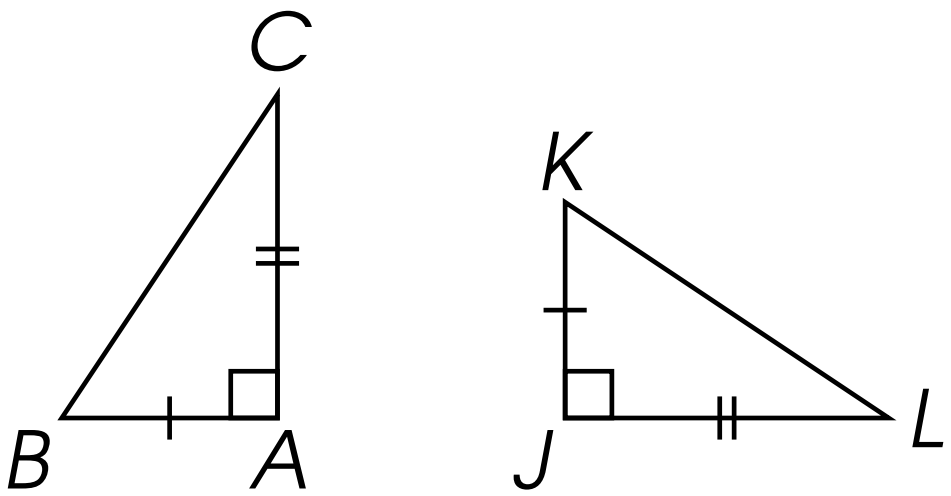
Complete the statements using the SSS congruence postulate.



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

Example 10

Complete the statements using the SSS congruence postulate.

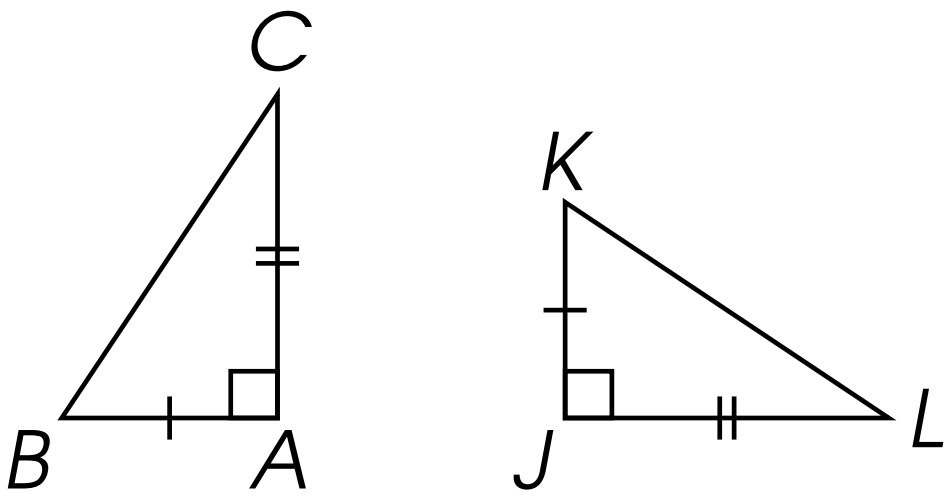


$\overline{AB} \cong \overline{JK}$

$\overline{AC} \cong$

Example 10

Complete the statements using the SSS congruence postulate.

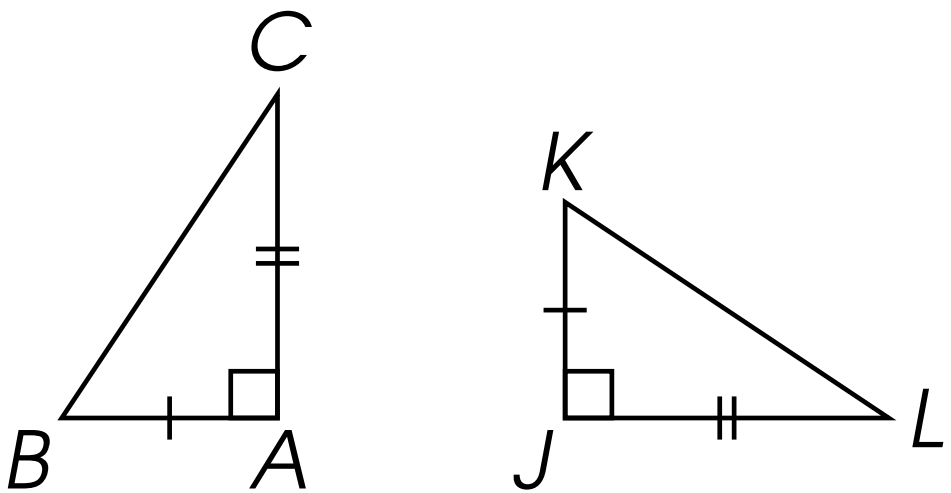


$\overline{AB} \cong \overline{JK}$

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

Example 10

Complete the statements using the SSS congruence postulate.



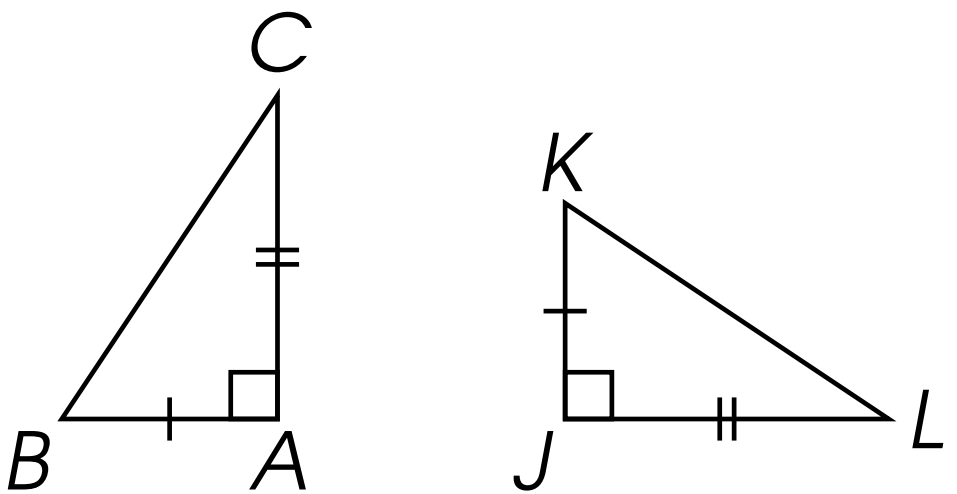
$\overline{AB} \cong \overline{JK}$

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

$\overline{BC} \cong$

Example 10

Complete the statements using the SSS congruence postulate.



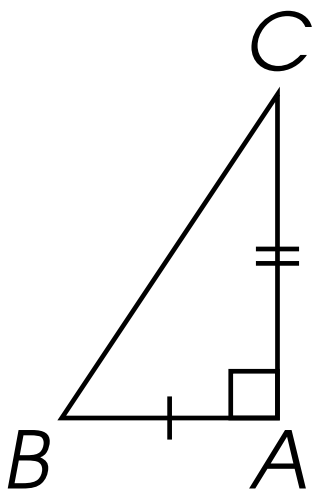
$\overline{AB} \cong \overline{JK}$

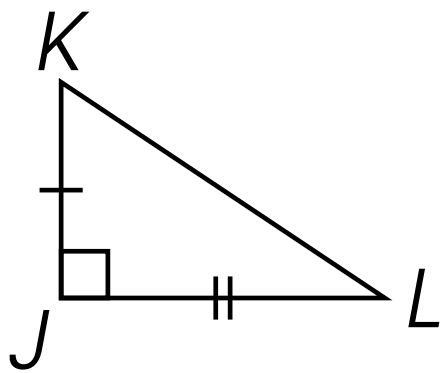
$\overline{AC} \cong \overline{JL}$

$\overline{BC} \cong \overline{KL}$

Example 10

Complete the statements using the SSS congruence postulate.





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

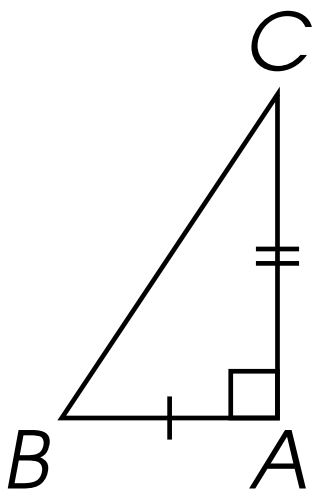
$\overline{AC} \cong \overline{JL}$

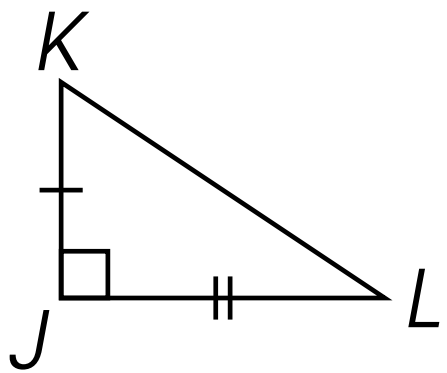
$\overline{BC} \cong \overline{KL}$

$\triangle ABC \cong$

Example 10

Complete the statements using the SSS congruence postulate.





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

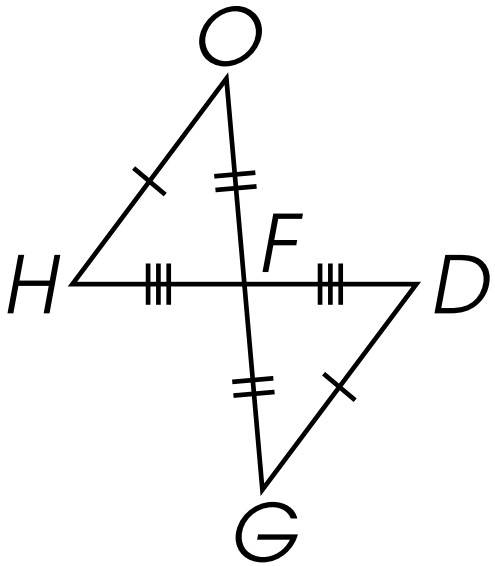
$\overline{AC} \cong \overline{JL}$

$\overline{BC} \cong \overline{KL}$

$\triangle ABC \cong \triangle JKL$

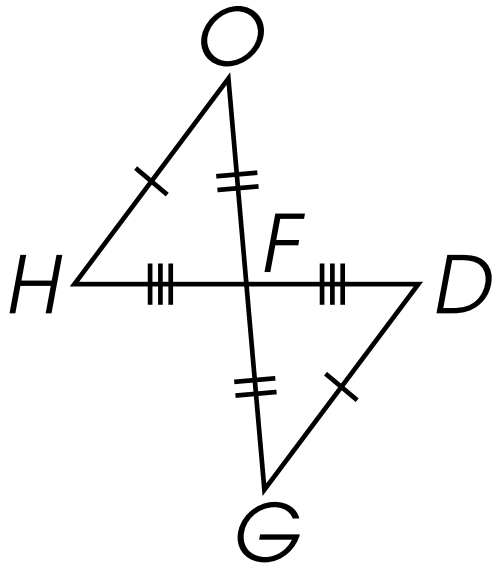
Example 11

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



Example 11

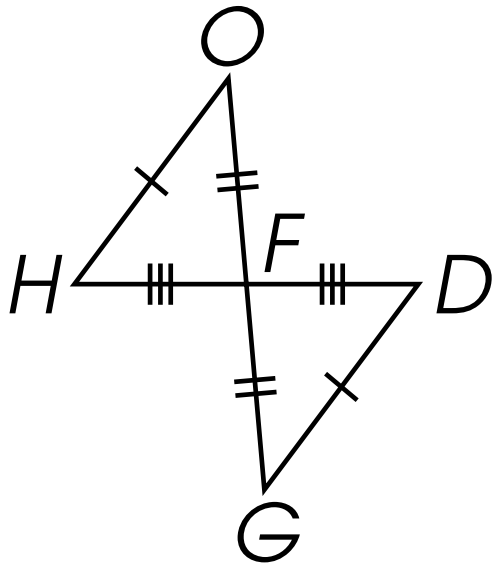
Show that $\triangle OFH$ and $\triangle GFD$ are congruent using the SSS triangle congruence postulate.



$\overline{HO} \cong$

Example 11

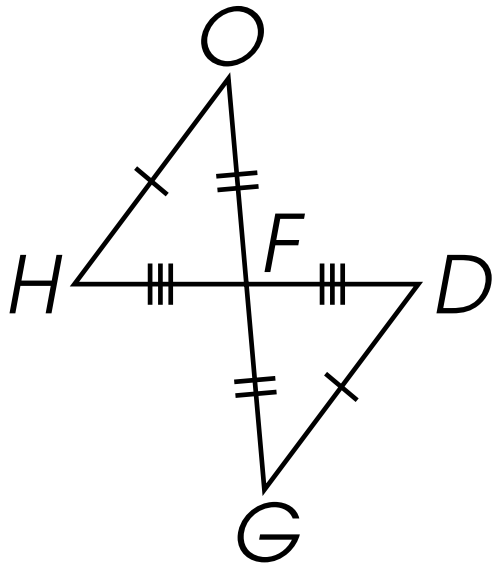
Show that $\triangle OFH$ and $\triangle GFD$ are congruent using the SSS triangle congruence postulate.



$\overline{HO} \cong \overline{DG}$

Example 11

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



$\overline{HO} \cong \overline{DG}$

$\overline{FO} \cong$

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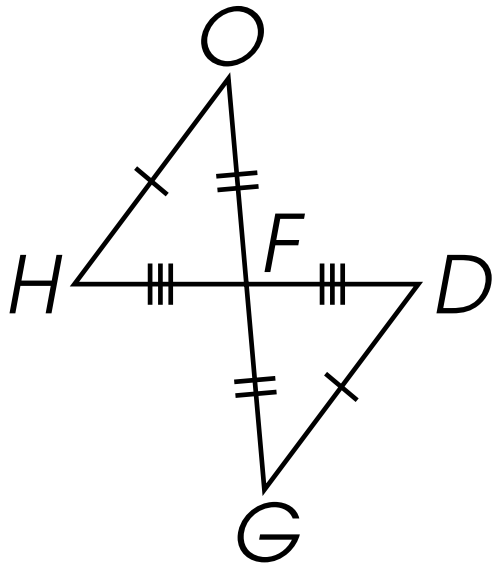

$\overline{HO} \cong \overline{DG}$

$\overline{FO} \cong \overline{FG}$

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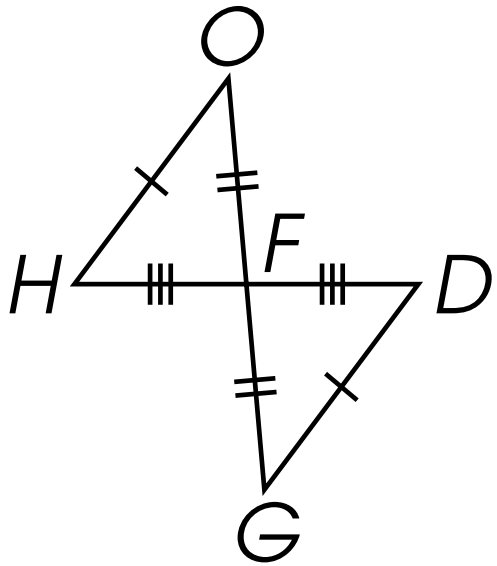

$\overline{HO} \cong \overline{DG}$

$\overline{FO} \cong \overline{FG}$

$\overline{HF} \cong$

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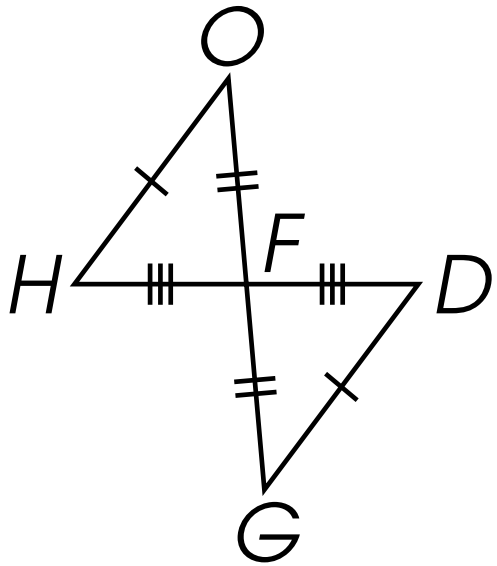

$\overline{HO} \cong \overline{DG}$

$\overline{FO} \cong \overline{FG}$

$\overline{HF} \cong \overline{DF}$

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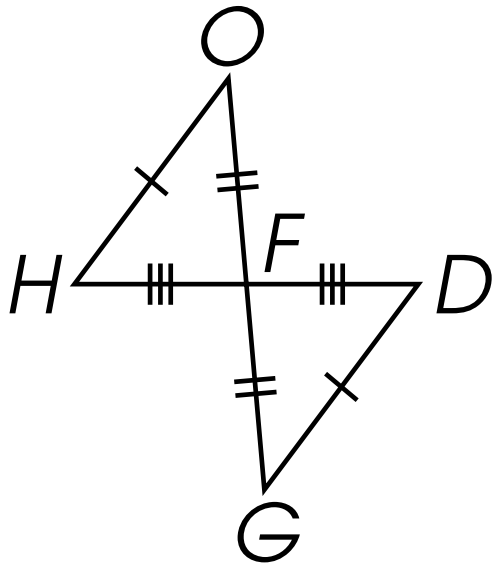


$\overline{HO} \cong \overline{DG}$

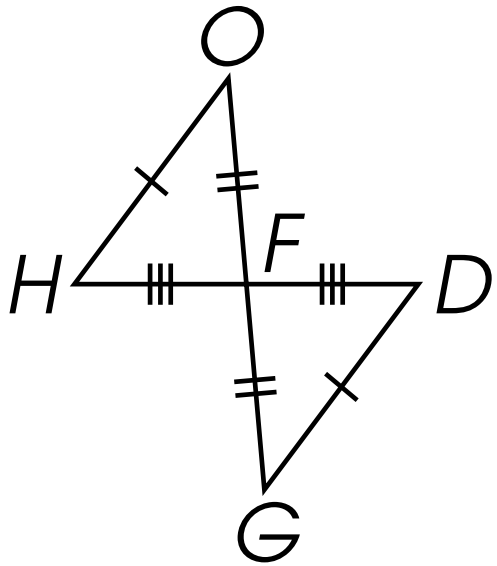
$\overline{FO} \cong \overline{FG}$

$\overline{HF} \cong \overline{DF}$

$\therefore \triangle OFH \cong$

Example 11

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



$\overline{HO} \cong \overline{DG}$

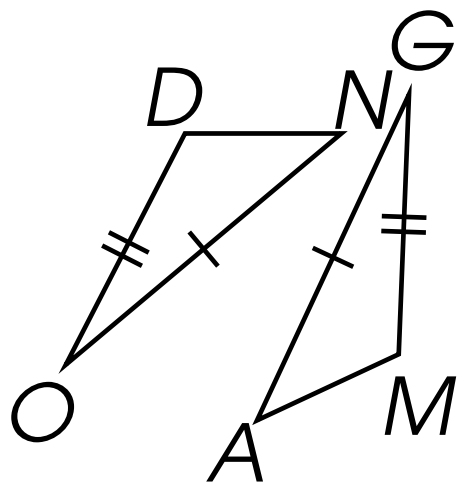
$\overline{FO} \cong \overline{FG}$

$\overline{HF} \cong \overline{DF}$

$\therefore \triangle OFH \cong \triangle GFD$

Example 12

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



Example 12

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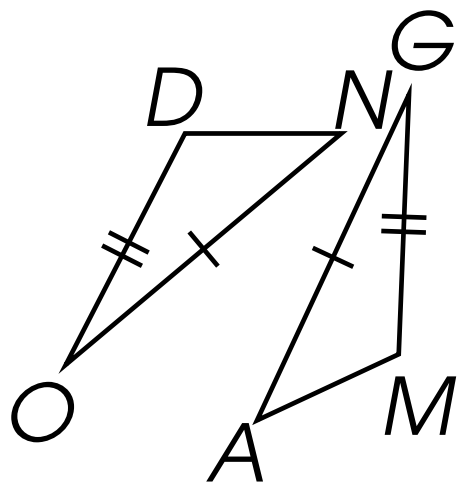

$\overline{DN} \cong$

Example 12

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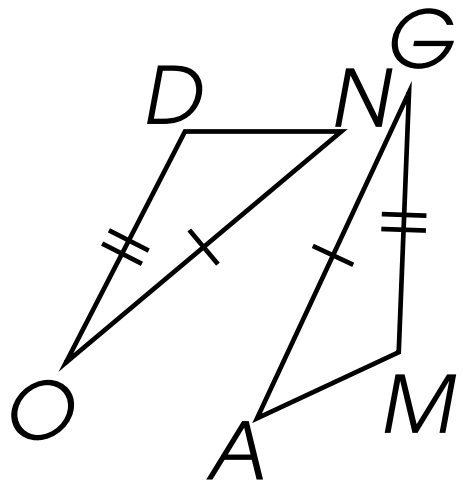

$\overline{DN} \cong \overline{MA}$

Example 13

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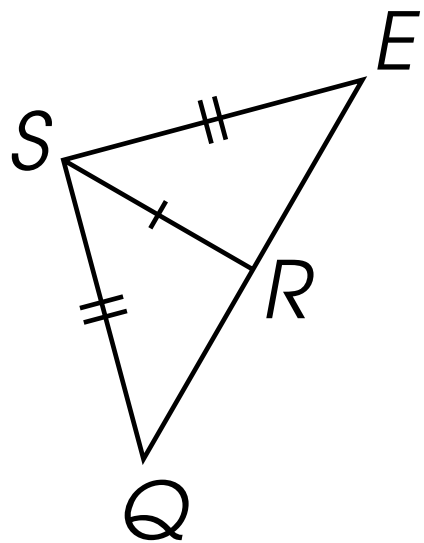

Example 13

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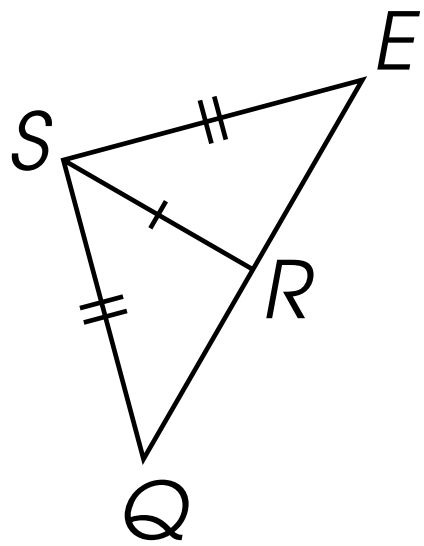
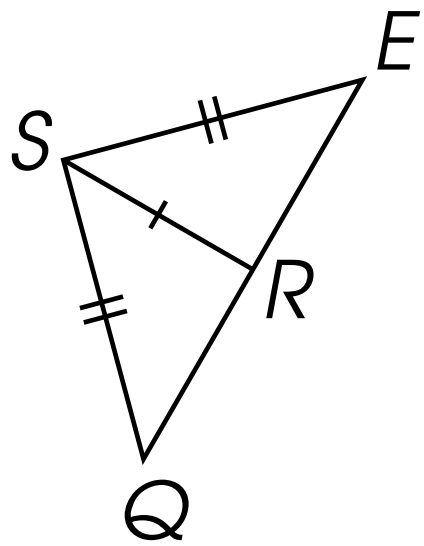


$\overline{RQ} \cong$

Example 13

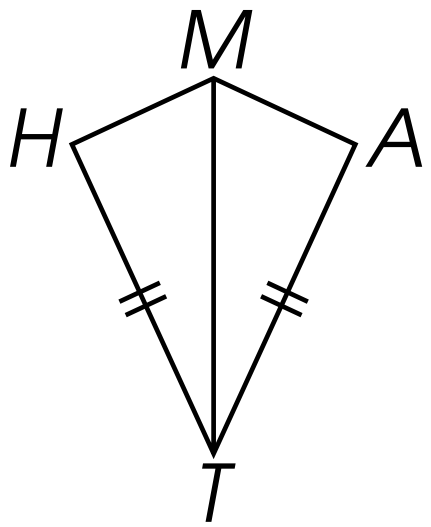
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{RQ} \cong \overline{RE}$

Example 14

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



Example 14

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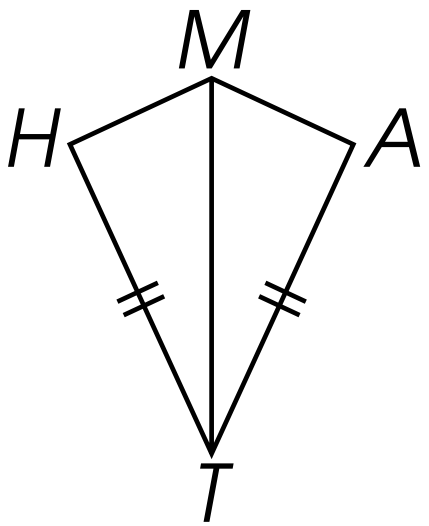
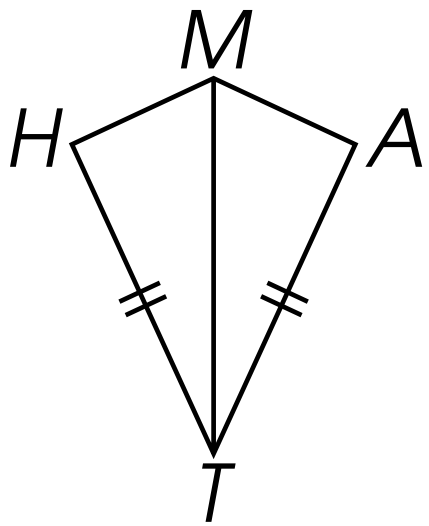


$\overline{MH} \cong$

Example 14

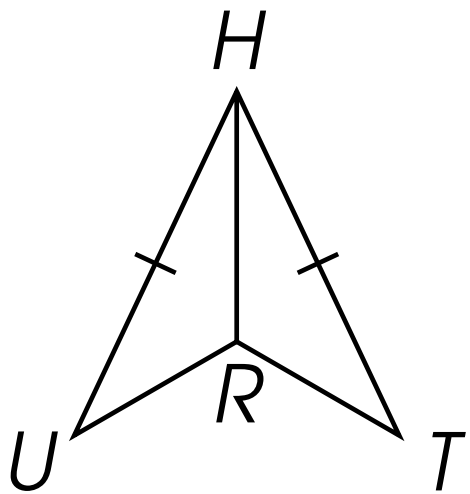
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{MH} \cong \overline{MA}$

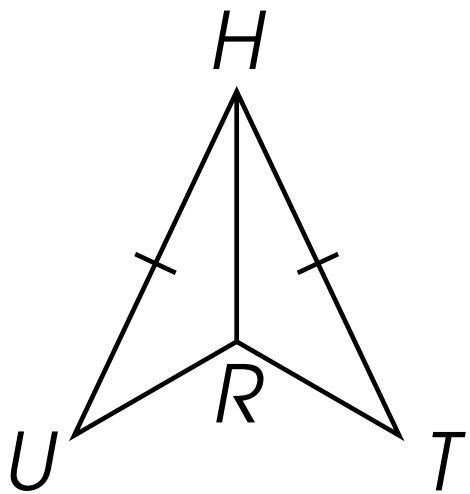
Example 15

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



Example 15

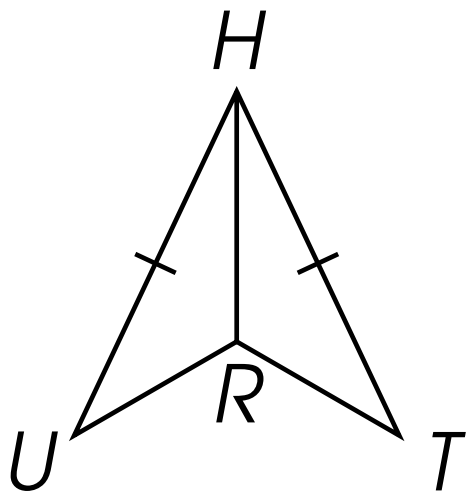
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{UR} \cong$

Example 15

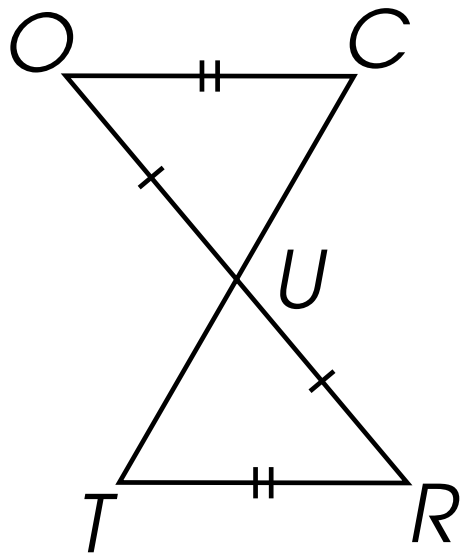
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{UR} \cong \overline{TR}$

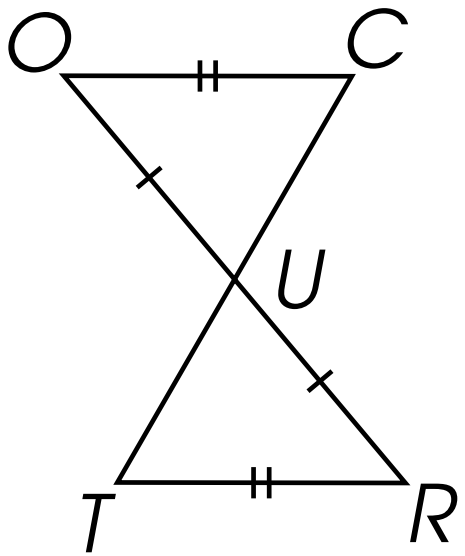
Example 16

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



Example 16

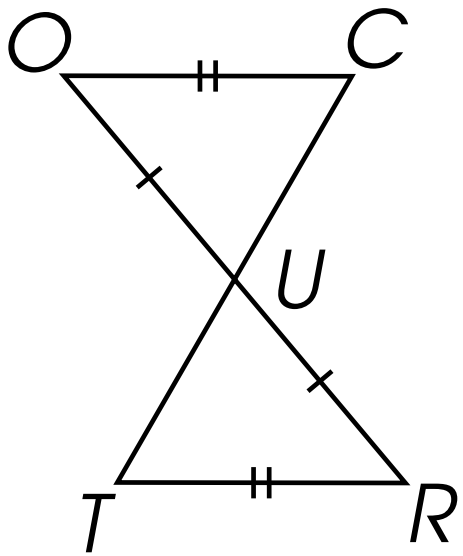
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{UC} \cong$

Example 16

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



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

Example 17

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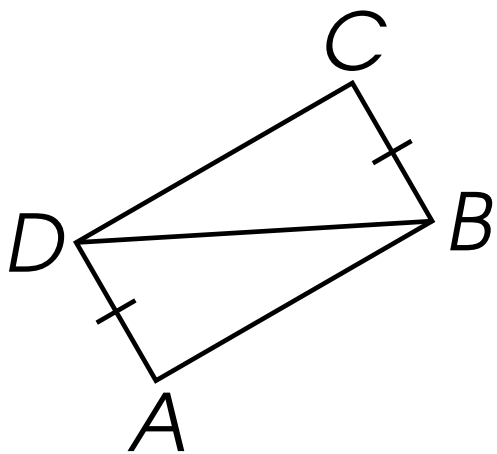

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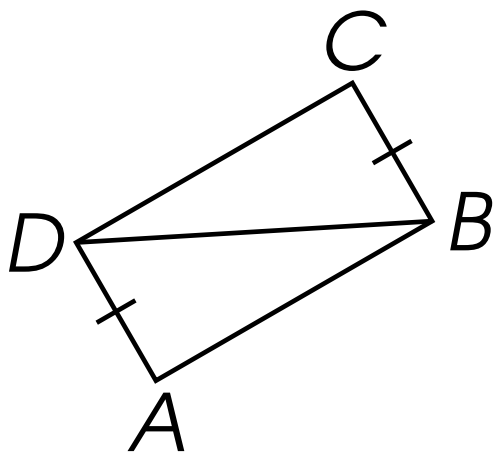
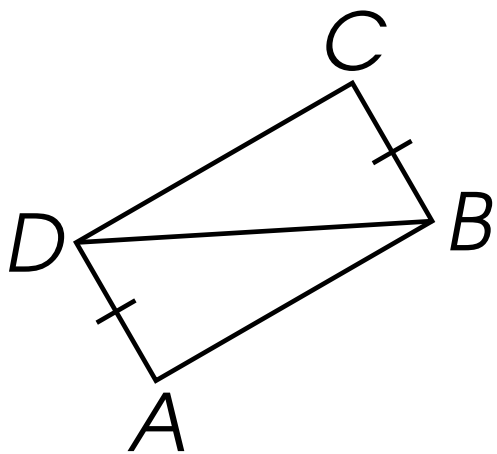
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{DC} \cong$

Example 17

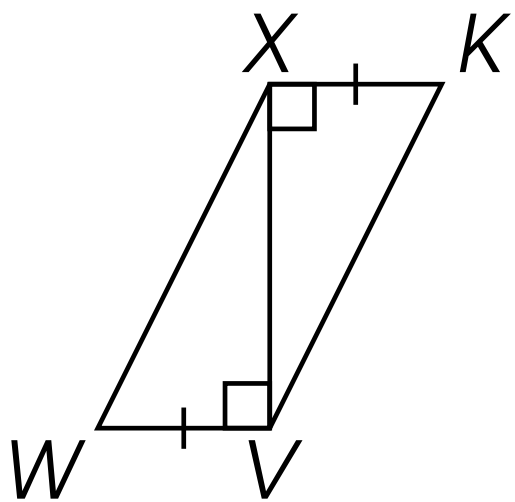
The figures are marked with their congruent parts. Determine the other congruent parts using the SSS congruence postulate.



$\overline{DC} \cong \overline{BA}$

Example 18

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



Example 18

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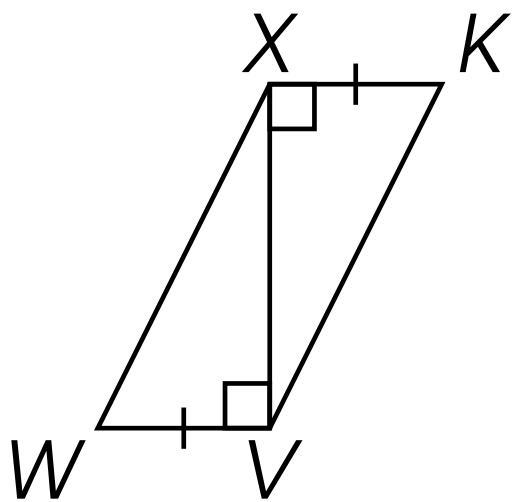
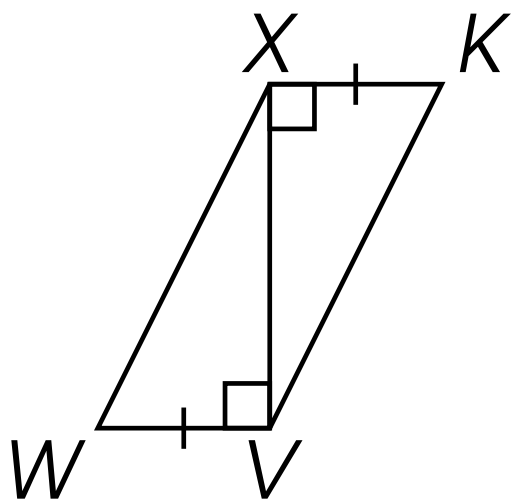


$\overline{WX} \cong$

Example 18

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



$\overline{WX} \cong \overline{KV}$

Example 19

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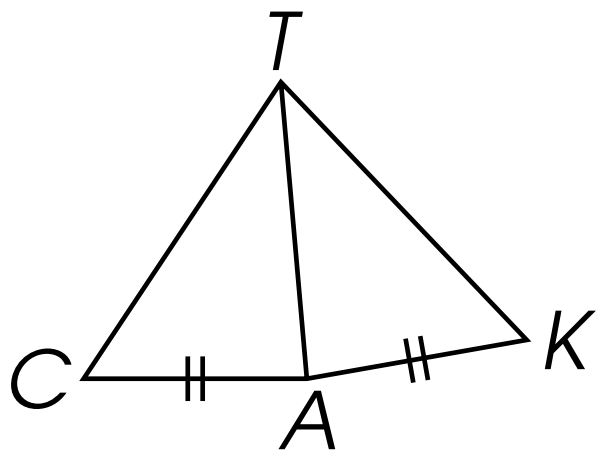

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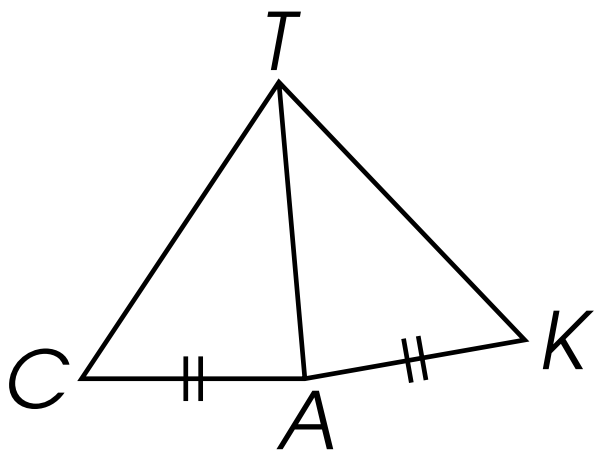
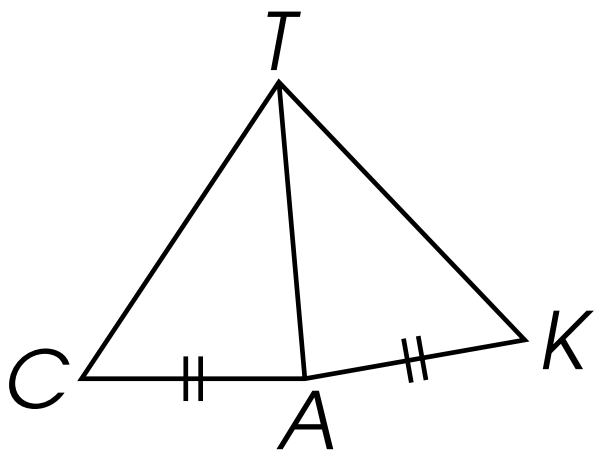


$\overline{CT} \cong$

Example 19

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



$\overline{CT} \cong \overline{KT}$

Example 20

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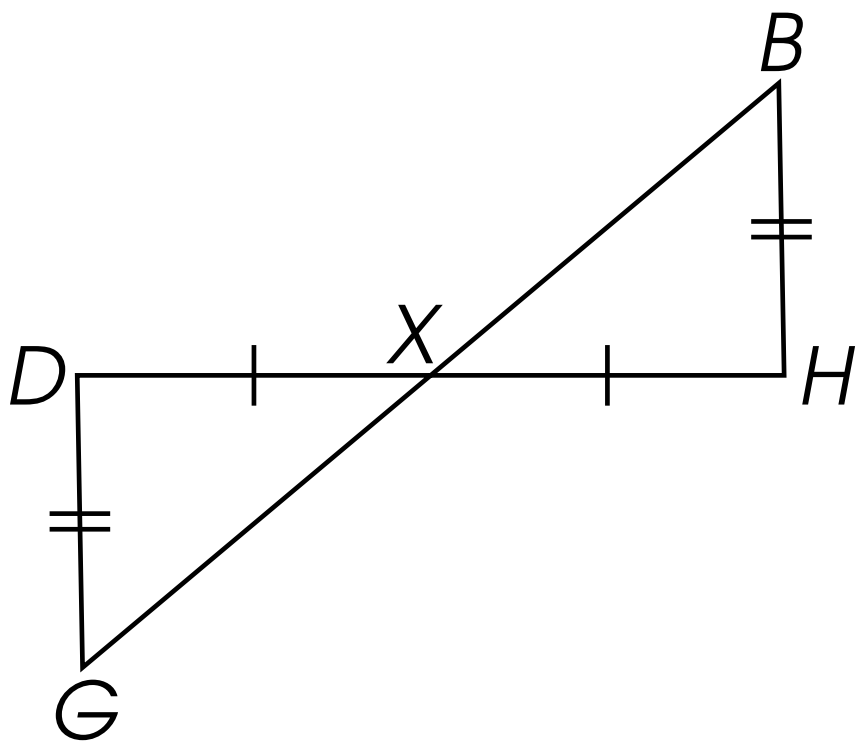

Example 20

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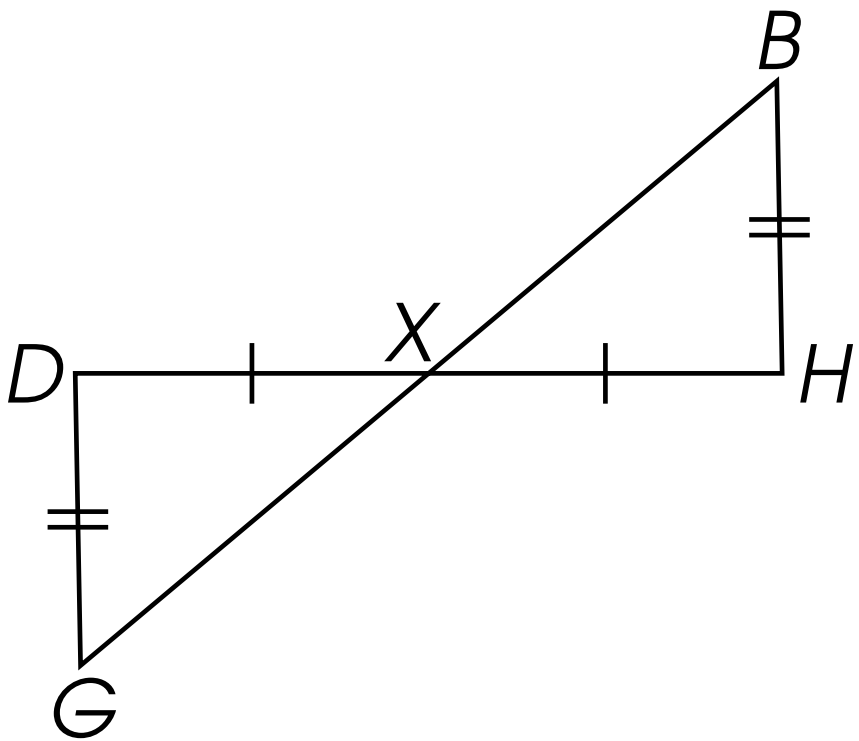
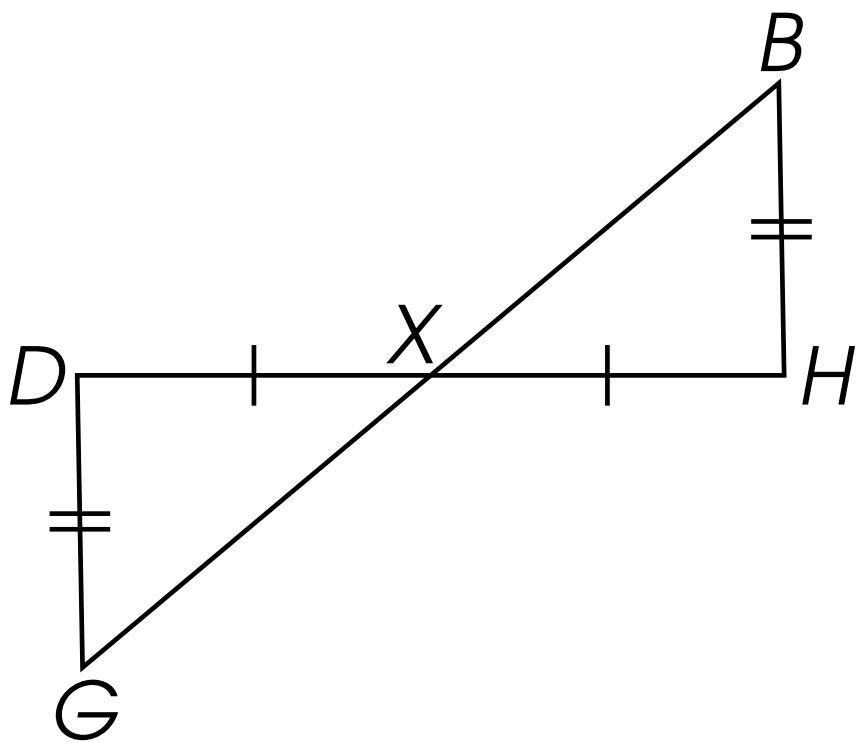


$\overline{GX} \cong$

Example 20

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



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

Example 21

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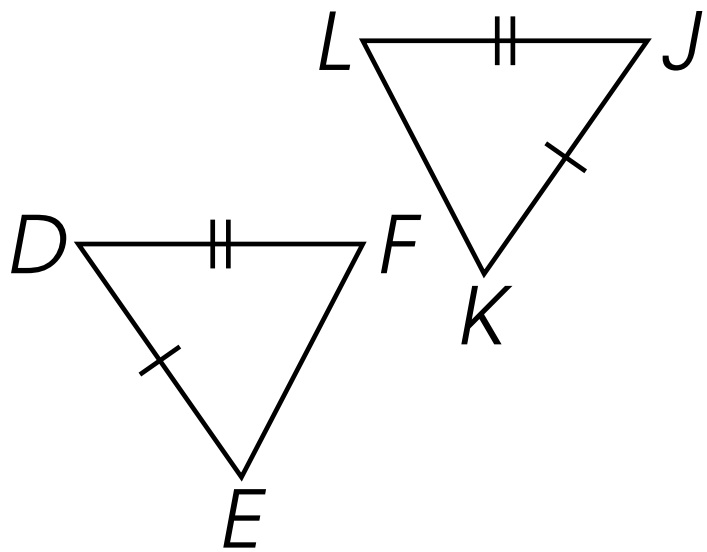

Example 21

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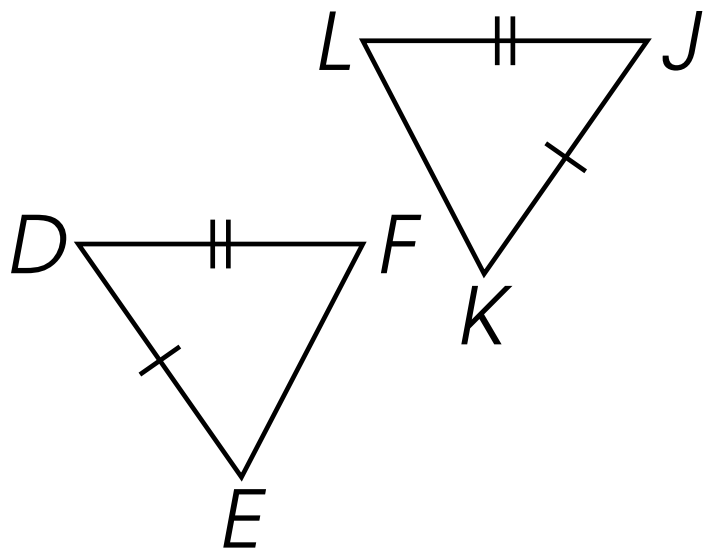

$\overline{EF} \cong$

Example 21

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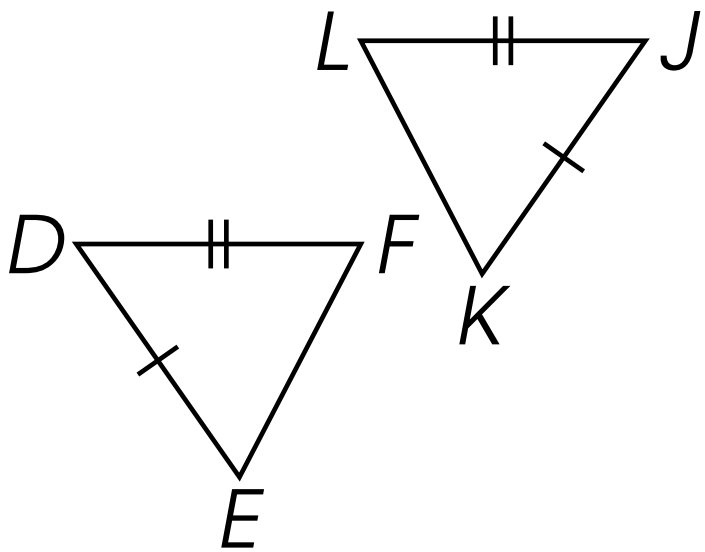

$\overline{EF} \cong \overline{KL}$

Thank you for watching.