

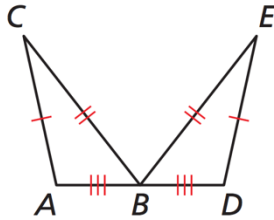
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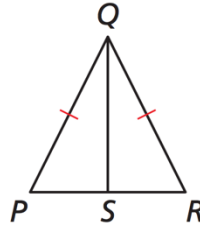
### 5.5 Proving Triangle Congruence by SSS

In Exercise 1 and 2, decide whether enough information is given to prove that the triangles are congruent using the SSS Congruence Theorem. Explain.

1.  $\triangle ABC, \triangle DBE$

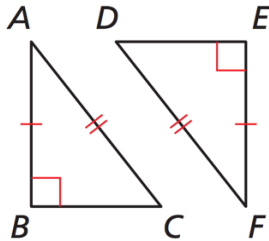


2.  $\triangle PQS, \triangle RQS$

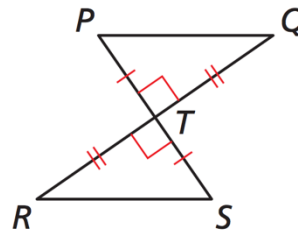


In Exercise 3 and 4, decide whether enough information is given to prove that the triangles are congruent using the HL Congruence Theorem. Explain.

3.  $\triangle ABC, \triangle FED$

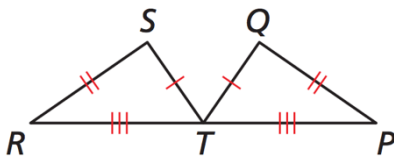


4.  $\triangle PQT, \triangle SRT$

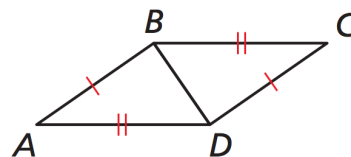


In Exercise 5-8, decide whether the congruence statement is true. Explain your reasoning.

5.  $\triangle RST \cong \triangle TQP$



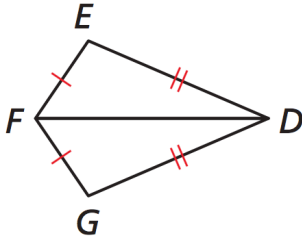
6.  $\triangle ABD \cong \triangle CDB$



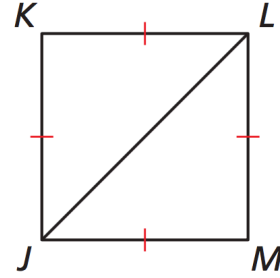
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7.  $\triangle DEF \cong \triangle DGF$



8.  $\triangle JKL \cong \triangle LJM$

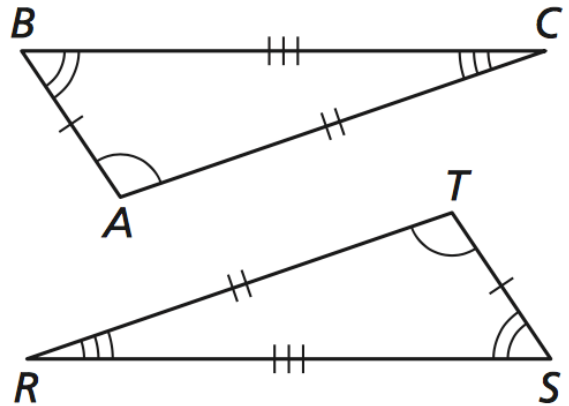


In Exercise 9-11, solve the indicated measure.

9.  $R = 19^\circ$ ,  $\angle B = 56^\circ$ , find  $m\angle T$ .

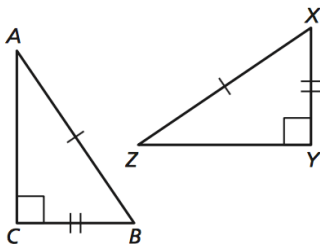
10.  $R = 19^\circ$ ,  $\angle B = 56^\circ$ , find  $m\angle S$ .

11.  $R = 19^\circ$ ,  $\angle B = 56^\circ$ , find  $m\angle C$ .



12. True or false?

$$\triangle ABC \cong \triangle ZXY$$



13. Are the two triangles congruent?

Yes or no?

