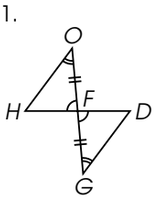
Lesson 3.4.2: ASA Triangle Congruence Postulate

ASA (Angle-Side-Angle) Congruence Postulate: If two angles and the included side of one triangle are congruent to the corresponding two angles and included side of another triangle, then the two triangles are congruent.

Practice Exercises 3.4.2

A. Show that each pair of triangles are congruent using the ASA triangle congruence postulate.

1.



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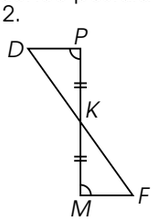

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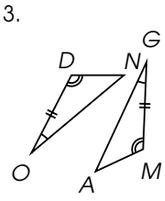

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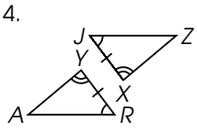

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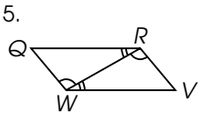

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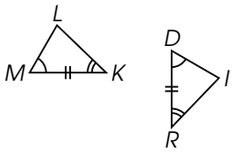
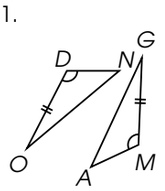


B. The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.

1.



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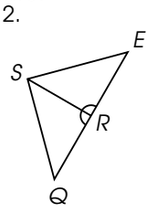

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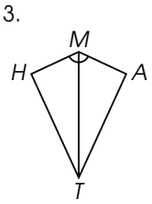

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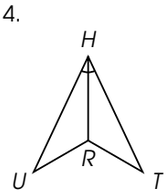

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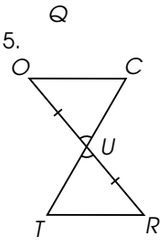

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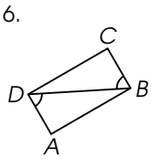
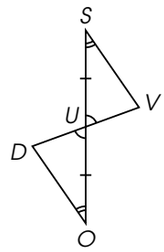


Activity 3.4.2

A. Show that each pair of triangles are congruent using the ASA triangle congruence postulate.

1.



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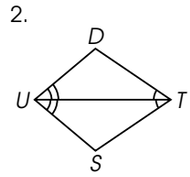

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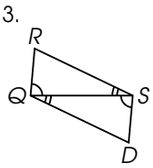

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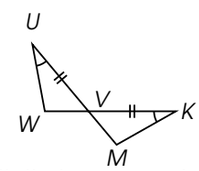
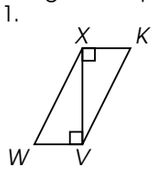


B. The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.

1.



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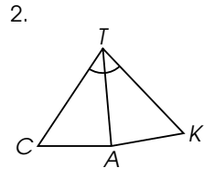

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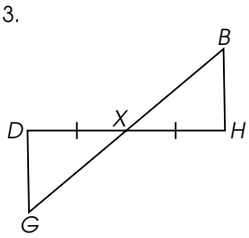

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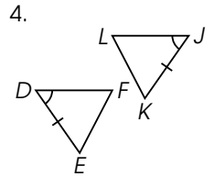

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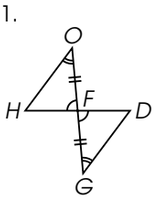
Practice Exercises 3.4.2

A. Show that each pair of triangles are congruent using the ASA triangle congruence postulate.

1.



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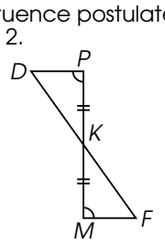

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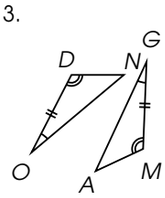

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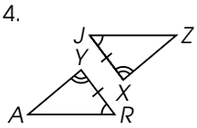

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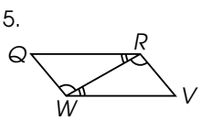

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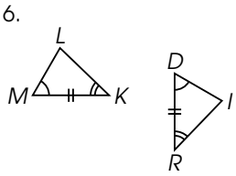
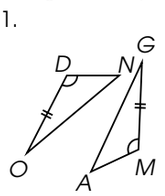


B. The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.

1.



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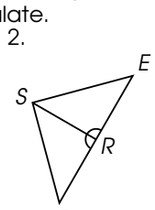

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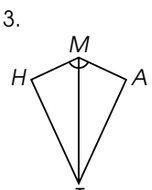

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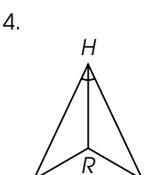

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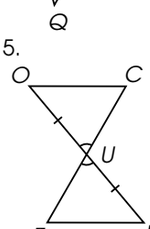

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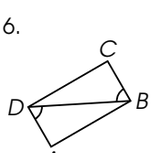
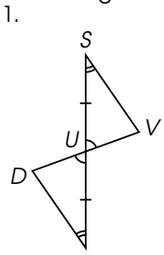


Activity 3.4.2

A. Show that each pair of triangles are congruent using the ASA triangle congruence postulate.

1.



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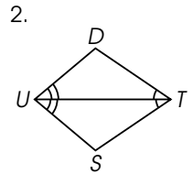

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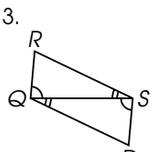

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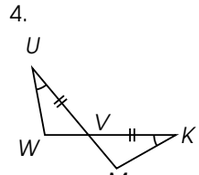
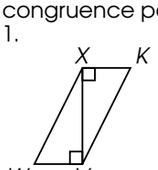


B. The figures are marked with their congruent parts. Determine the other congruent parts using the ASA congruence postulate.

1.



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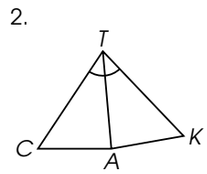

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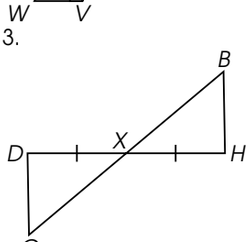

4.