4.3 Homework: SAS and SSS Practice
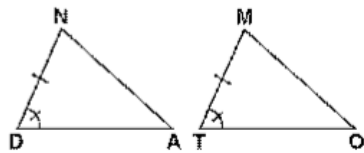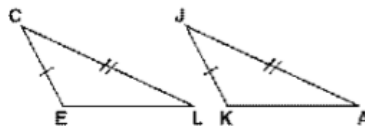
Part 1:

> The pair of triangles below has two corresponding parts marked as congruent.

1. What additional information is needed for a SAS congruence correspondence?

Answer: _____ ≅ _____

4. What additional information is needed for a SSS congruence correspondence?

Answer: _____ ≅ _____

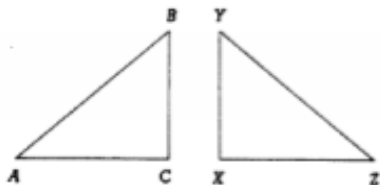5. What additional information is needed for a SAS congruence correspondence.
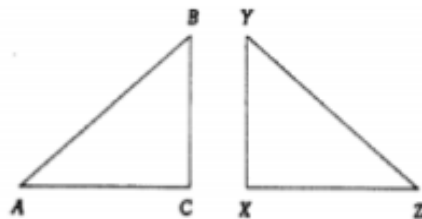

Answer: _____ ≅ _____

Part 2:

1. Mark up the triangles with the given information
2. State if you can prove the triangles congruent
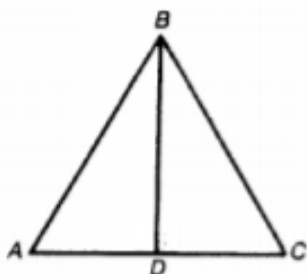3. State how you know they are congruent (SAS or SSS)

$\overline{AC} \cong \overline{ZX}$
$\angle B \cong \angle Y$
$\overline{BC} \cong \overline{YX}$

$\overline{ZX} \cong \overline{AC}$
$\overline{XY} \cong \overline{CB}$
$\angle X \cong \angle C$

$\overline{AB} \cong \overline{BC}$,
$\overline{BD}$ bisects $\angle ABC$.

$\overline{AB} \cong \overline{ZY}$
$\overline{AC} \cong \overline{ZX}$
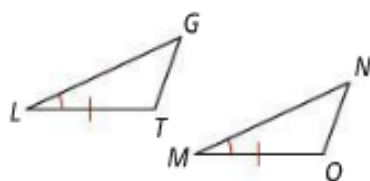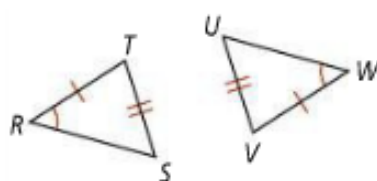$\overline{CB} \cong \overline{XY}$
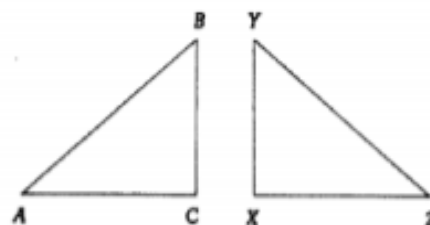
What other information, if any, do you need to prove the two triangles congruent by SAS? Explain.
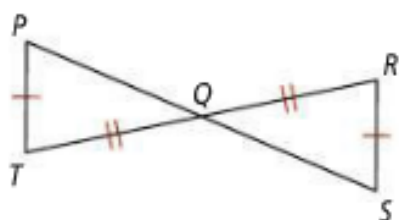
11.

12.

Would you use SSS or SAS to prove the triangles congruent? If there is not enough information to prove the triangles congruent by SSS or SAS, write *not enough information*. Explain your answer.

13.

14.