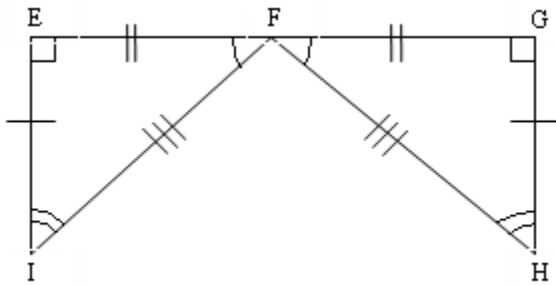


**Classwork** 2.3 Triangle Congruence

Name the congruent triangle and the congruent parts.



▲  $FGH \cong$  \_\_\_\_\_

1.  $\angle EFI \cong$  \_\_\_\_\_

2.  $\overline{FG} \cong$  \_\_\_\_\_

3.  $\angle G \cong$  \_\_\_\_\_

4.  $\overline{GH} \cong$  \_\_\_\_\_

5.  $\angle H \cong$  \_\_\_\_\_

6.  $\overline{FH} \cong$  \_\_\_\_\_

Use the congruency statement to fill in the corresponding congruent parts.

▲  $EFI \cong$  ▲  $HGI$

7.  $\angle E \cong$  \_\_\_\_\_

8.  $\overline{FE} \cong$  \_\_\_\_\_

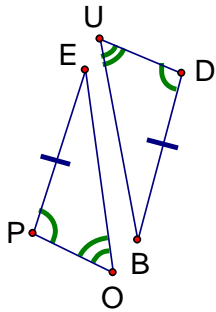
9.  $\angle EFI \cong$  \_\_\_\_\_

10.  $\overline{FI} \cong$  \_\_\_\_\_

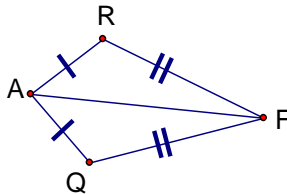
11.  $\angle FIE \cong$  \_\_\_\_\_

12.  $\overline{IE} \cong$  \_\_\_\_\_

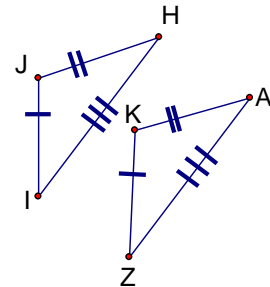
State whether each pair of triangles is congruent by SSS, SAS, ASA, AAS, or HL; if none of these methods work, write N. If congruent, make a congruence statement for the triangles.



13.

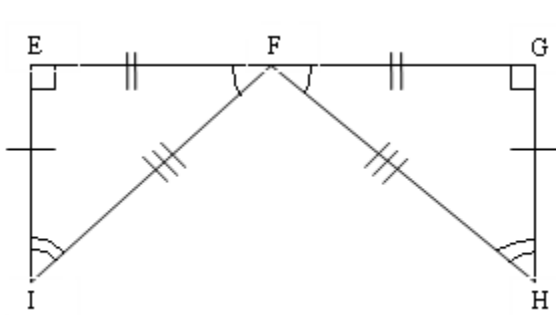


14.



15.

Name the congruent triangle and the congruent parts



$\triangle FGH \cong \triangle FEI$

1.  $\angle EFI \cong \angle GFH$

2.  $\overline{FG} \cong \overline{FE}$

3.  $\angle G \cong \angle E$

4.  $\overline{GH} \cong \overline{EI}$

5.  $\angle H \cong \angle I$

6.  $\overline{FH} \cong \overline{FI}$

Use the congruency statement to fill in the corresponding congruent parts.

$\triangle EFI \cong \triangle HGI$

7.  $\angle E \cong \angle H$

8.  $\overline{FE} \cong \overline{GH}$

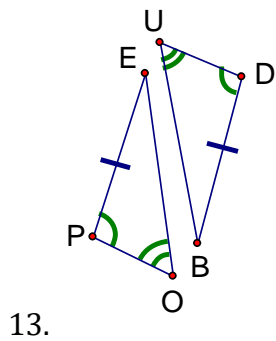
9.  $\angle EFI \cong \angle HGI$

10.  $\overline{FI} \cong \overline{GI}$

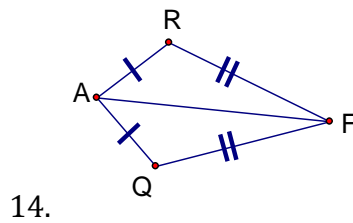
11.  $\angle FIE \cong \angle GIH$

12.  $\overline{IE} \cong \overline{IH}$

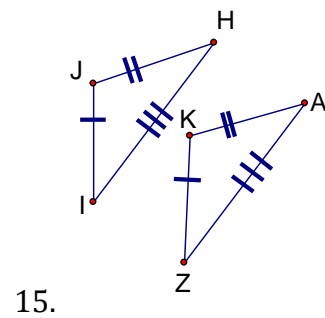
State whether each pair of triangles is congruent by SSS, SAS, ASA, AAS, or HL; if none of these methods work, write N. If congruent, make a congruence statement for the triangles.



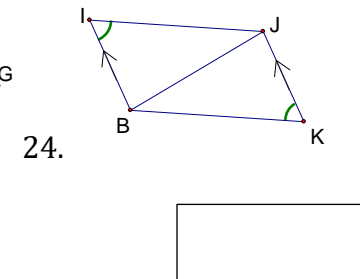
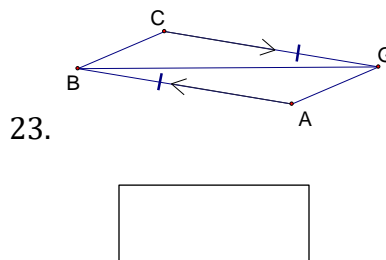
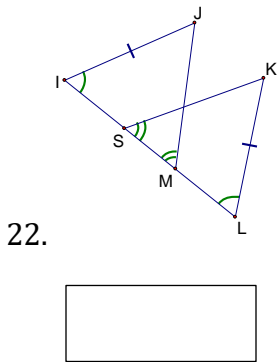
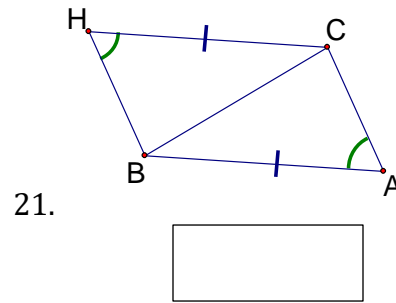
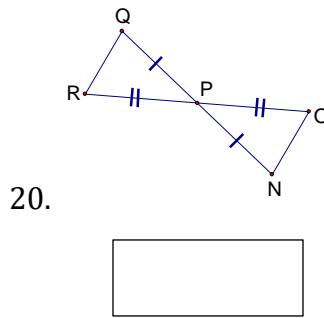
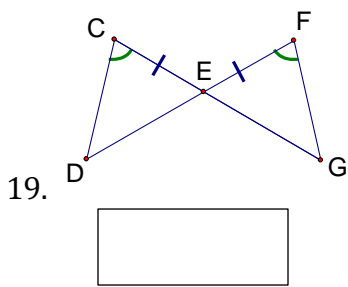
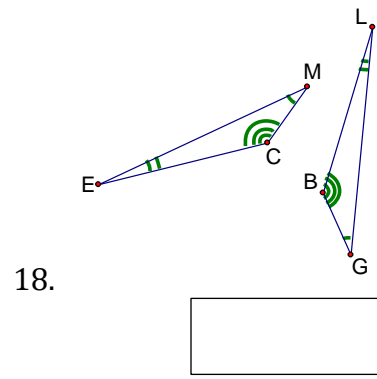
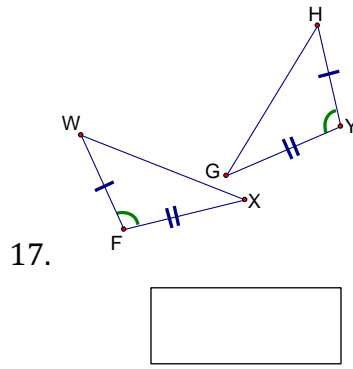
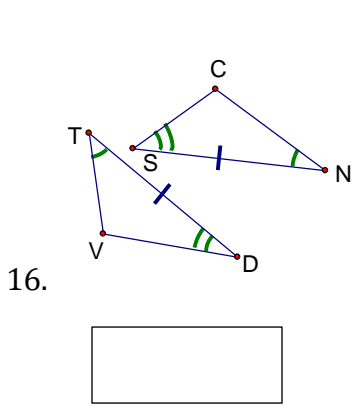
AAS



SSS

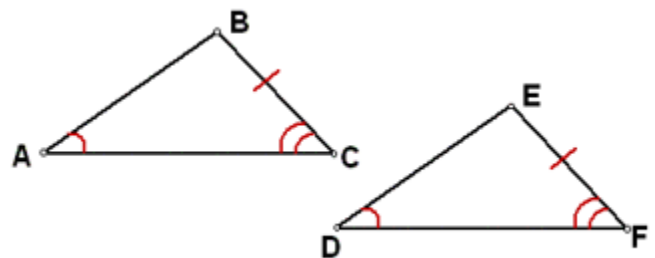


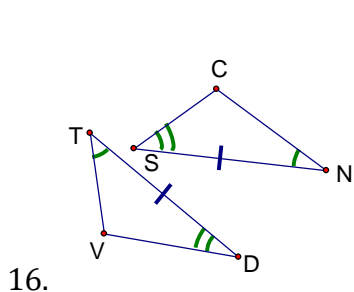
SSS



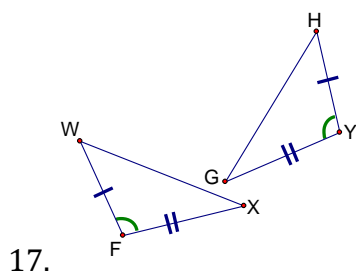
25. Which of the statements about the two triangles is correct?

- A) The triangles are congruent by AAA.
- B) These triangles are congruent by AAS.
- C) These triangles are congruent by SSS.
- D) These triangles are congruent by SSA.

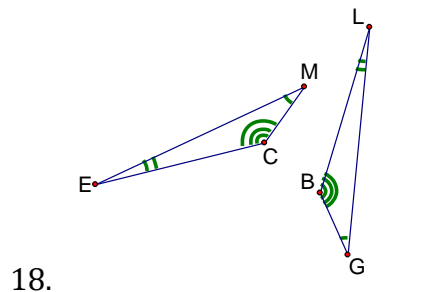




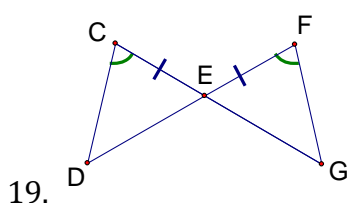
ASA



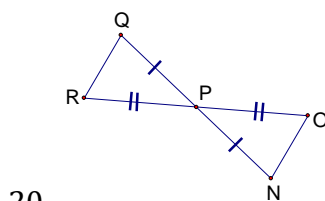
SAS



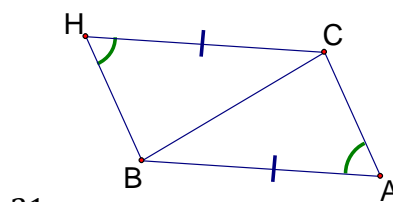
Not Congruent



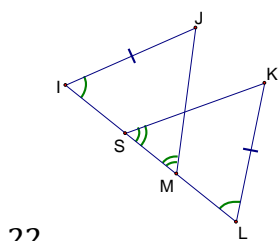
ASA



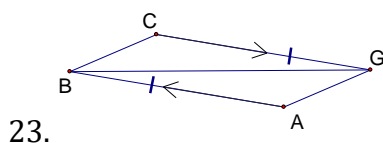
SAS



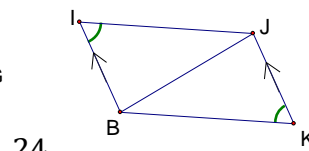
Not Congruent



SAS



ASA



AAS

25. Which of the statements about the two triangles is correct?

- A) The triangles are congruent by AAA.
- B) These triangles are congruent by AAS.
- C) These triangles are congruent by SSS.
- D) These triangles are congruent by SSA.

B

