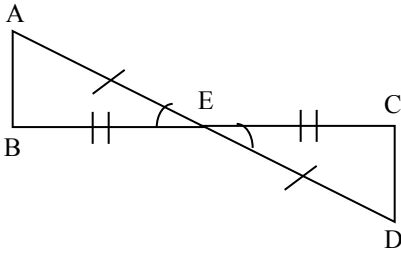


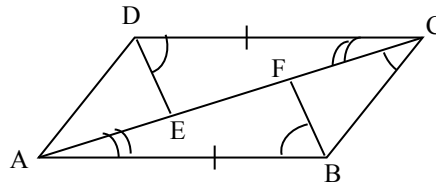
Homework 2.3 Triangle Congruence

For each pair of triangles, tell which postulate, if any, can be used to prove the triangles congruent.

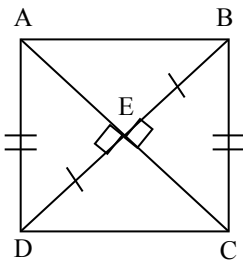
1. $\triangle AEB \cong \triangle DEC$ _____



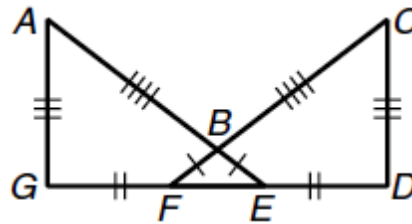
2. $\triangle CDE \cong \triangle ABF$ _____



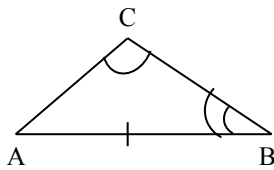
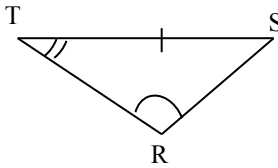
3. $\triangle DEA \cong \triangle BEC$ _____



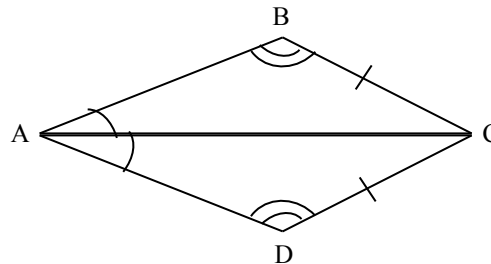
4. $\triangle AGE \cong \triangle CDF$ _____



5. $\triangle RTS \cong \triangle CBA$ _____

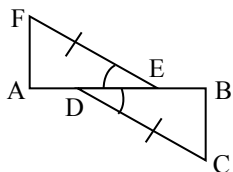


6. $\triangle ABC \cong \triangle ADC$ _____



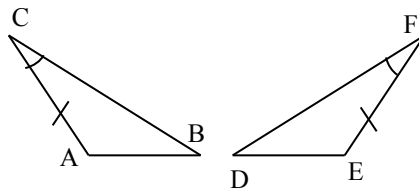
Using the given postulate, tell which parts of the pair of triangles should be shown congruent.

7. SAS



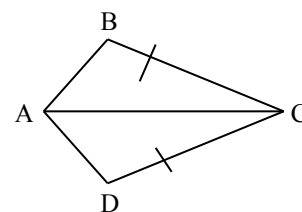
_____ \cong _____

8. ASA



_____ \cong _____

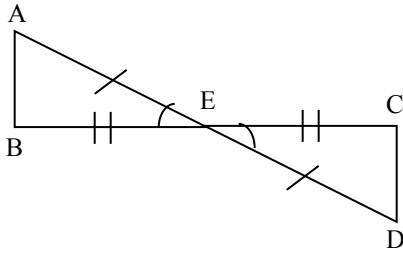
9. SSS



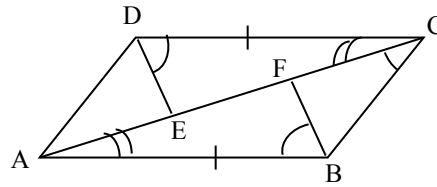
_____ \cong _____

For each pair of triangles, tell which postulate, if any, can be used to prove the triangles congruent.

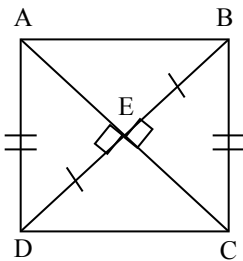
1. $\triangle AEB \cong \triangle DEC$ SAS



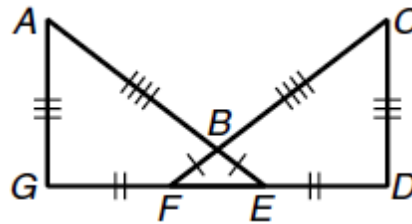
2. $\triangle CDE \cong \triangle ABF$ ASA



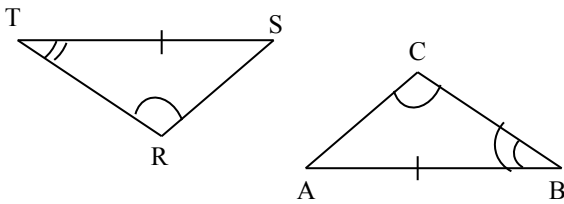
3. $\triangle DEA \cong \triangle BEC$ HL



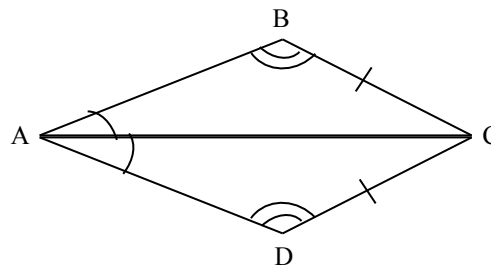
4. $\triangle AGE \cong \triangle CDF$ SSS



5. $\triangle RTS \cong \triangle CBA$ AAS

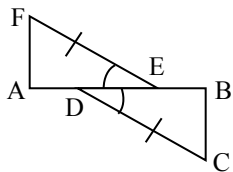


6. $\triangle ABC \cong \triangle ADC$ AAS



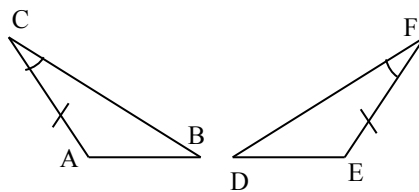
Using the given postulate, tell which parts of the pair of triangles should be shown congruent.

7. SAS



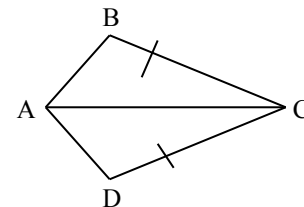
$\overline{AE} \cong \overline{ED}$

8. ASA



$\angle A \cong \angle E$

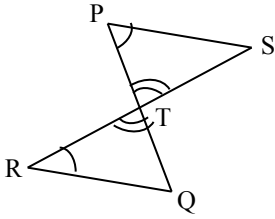
9. SSS



$\overline{BA} \cong \overline{DA}$

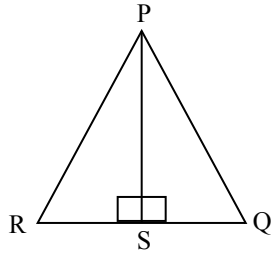
Homework 2.3 Triangle Congruence (Page 2)

10. AAS



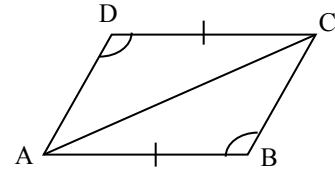
_____ \cong _____

11. HL



_____ \cong _____

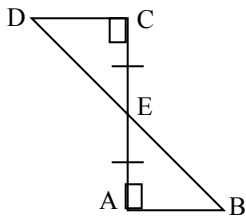
12. ASA



_____ \cong _____

For each pair of triangles, give the following: (a) state whether the triangles are congruent or not congruent (b) provide the triangle congruency statement (c) denote the postulate that makes them congruent.

13.

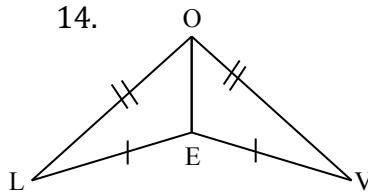


a. _____

b. Δ _____ \cong Δ _____

c. _____

14.

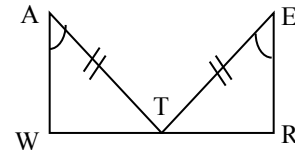


a. _____

b. Δ _____ \cong Δ _____

c. _____

15. Given: T is the midpoint of \overline{WR}

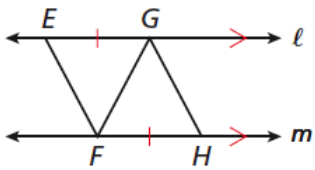


a. _____

b. Δ _____ \cong Δ _____

c. _____

16.

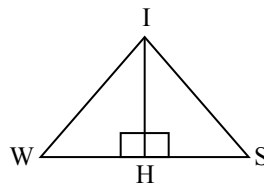


a. _____

b. Δ _____ \cong Δ _____

c. _____

17. Given: \overrightarrow{IH} Bisects $\angle WIS$

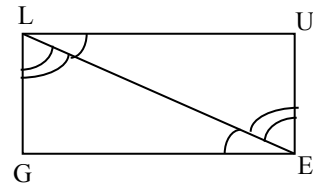


a. _____

b. Δ _____ \cong Δ _____

c. _____

18.

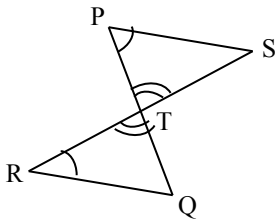


a. _____

b. Δ _____ \cong Δ _____

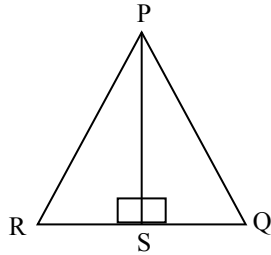
c. _____

10. AAS



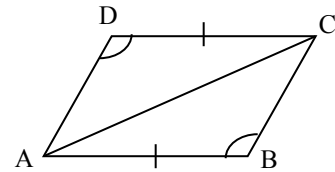
$\overline{RQ} \cong \overline{SQ}$

11. HL



$\overline{PR} \cong \overline{PQ}$

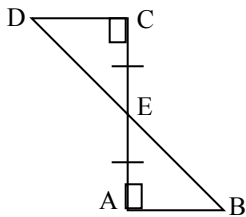
12. ASA



$\angle DCA \cong \angle BAC$

For each pair of triangles, give the following: (a) state whether the triangles are congruent or not congruent (b) provide the triangle congruency statement (c) denote the postulate that makes them congruent.

13.

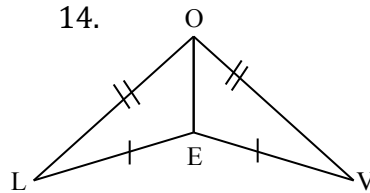


a. Congruent

b. $\triangle DEC \cong \triangle BEA$

c. ASA

14.

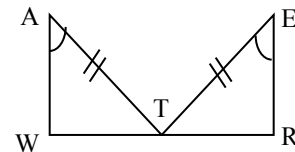


a. Congruent

b. $\triangle LOE \cong \triangle VOE$

c. SSS

15. Given: T is the midpoint of \overline{WR}

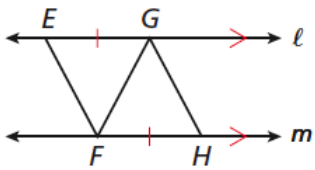


a. Not Congruent

b. $\triangle ___ \cong \triangle ___$

c.

16.

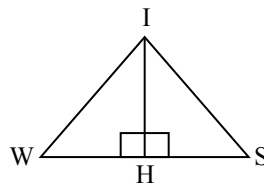


a. Congruent

b. $\triangle GFE \cong \triangle FGH$

c. SAS

17. Given: \overline{IH} Bisects $\angle WIS$

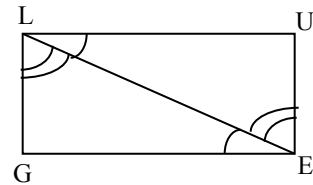


a. Congruent

b. $\triangle IWH \cong \triangle ISH$

c. ASA

18.



a. Congruent

b. $\triangle ELG \cong \triangle LEU$

c. ASA