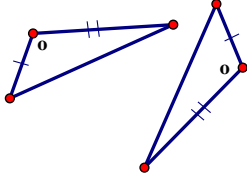
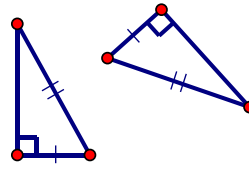


Are each of the pairs of triangles shown below congruent? If they are, explain why.

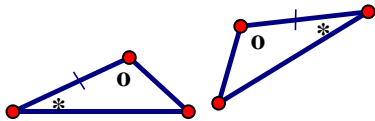
1a.



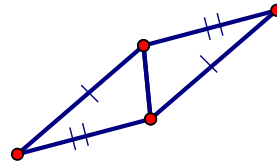
b.



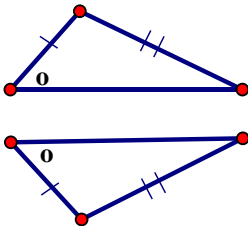
2a.



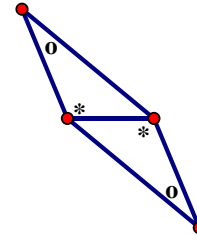
b.



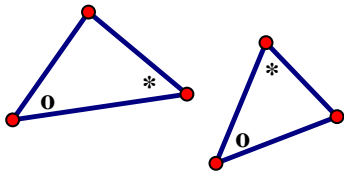
3a.



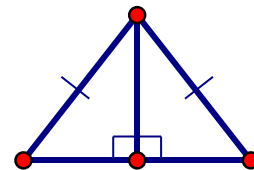
b.



4a.



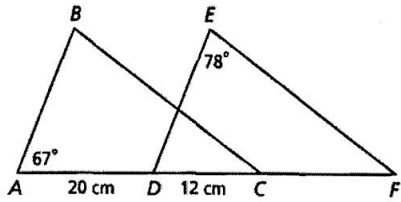
b.



5. Given the congruence statement below, write six congruence statements about corresponding parts.

$$\triangle HTJ \cong \triangle NRZ$$

6.  $\triangle ABC \cong \triangle DEF$ . Find  $DF$  and  $m\angle EDC$ .

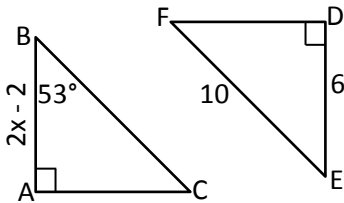


$DF =$

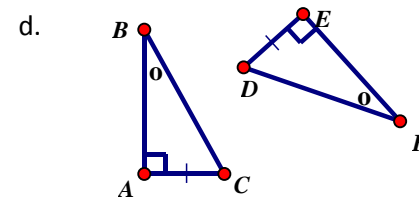
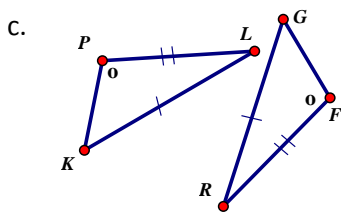
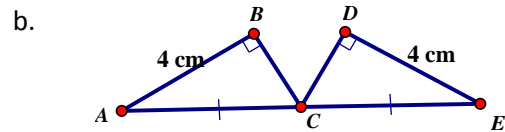
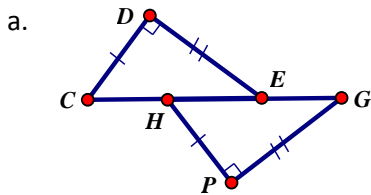
$m\angle EDC =$

Describe a transformation or composition or transformations that would map one triangle to the other.

7. Given  $\triangle ABC \cong \triangle DEF$ , find the value of  $x$  as well as  $m\angle F$ .



8. Are the following pairs of triangle congruent? If YES, create a congruence statement and name the congruence criteria.



9. Jeff states that  $\triangle PLN \cong \triangle CVB$  because of ASA. Nancy says that she knows something that would allow her to use AAS. What does she know that would allow her to use AAS for these triangles?