

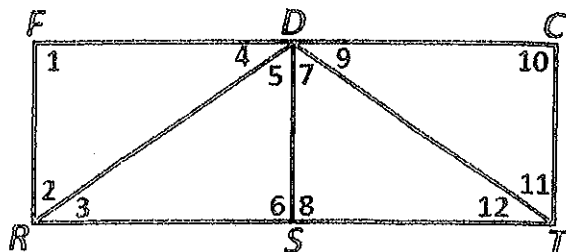
Name: _____

Geometry Worksheet 4-4 & 4-5

Proving Congruence

Refer to the figure at the right for Exercises 1 - 11.

- _____ 1) Name the included side for $\angle 1$ and $\angle 4$.
- _____ 2) Name the included side for $\angle 7$ and $\angle 8$.
- _____ 3) Name a nonincluded side for $\angle 5$ and $\angle 6$.
- _____ 4) Name a nonincluded side for $\angle 9$ and $\angle 10$.
- _____ 5) \overline{CT} is included between what two angles?
- _____ 6) \overline{SR} is included between what two angles?
- _____ 7) In $\triangle FDR$, name a pair of angles so that \overline{FR} is not included.
- _____ 8) In $\triangle SDT$, name a pair of angles so that \overline{ST} is not included.
- _____ 9) If $\angle 1 \cong \angle 6$, $\angle 4 \cong \angle 3$, and $\overline{FR} \cong \overline{DS}$, then $\triangle FDR \cong \triangle ?$ by $?$.
- _____ 10) If $\angle 5 \cong \angle 7$, $\angle 6 \cong \angle 8$, and $\overline{DS} \cong \overline{DS}$, then $\triangle TDS \cong \triangle ?$ by $?$.
- _____ 11) If $\angle 4 \cong \angle 9$, what sides would need to be congruent to show $\triangle FDR \cong \triangle CDT$?

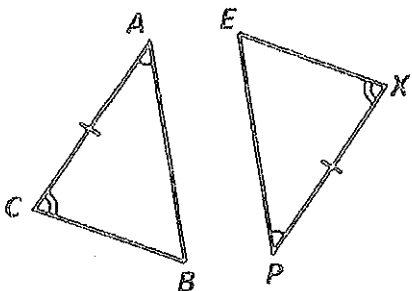


For each problem a) Name a congruent triangle listing vertices in order.

b) State SSS, SAS, AAS, or ASA to prove the triangles congruent.

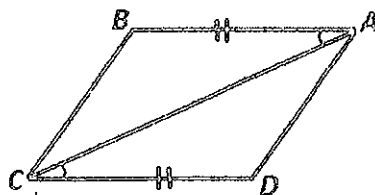
12) a. $\triangle ACB \cong \triangle$ _____

b. _____



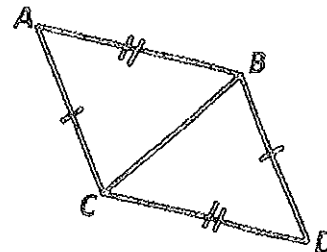
13) a. $\triangle ABC \cong \triangle$ _____

b. _____



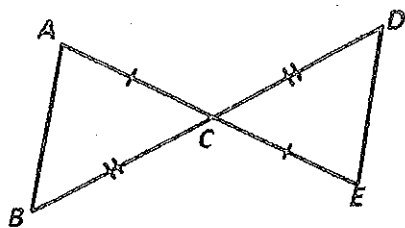
14) a. $\triangle BAC \cong \triangle$ _____

b. _____



15) a. $\triangle ACB \cong \triangle$ _____

b. _____



16) a. $\triangle BNR \cong \triangle$ _____

b. _____

