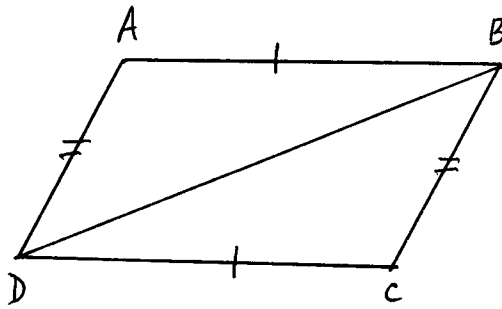


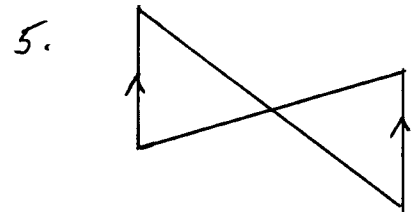
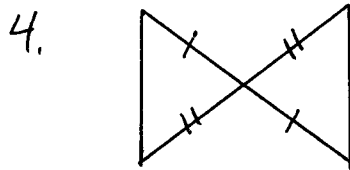
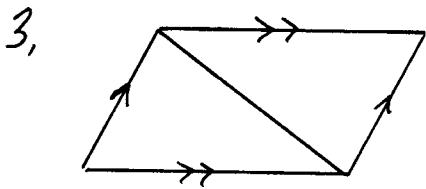
REVIEW PROBLEMS (Chapter 4)



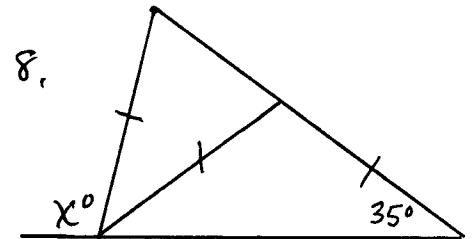
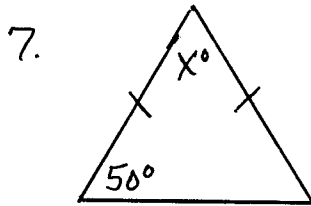
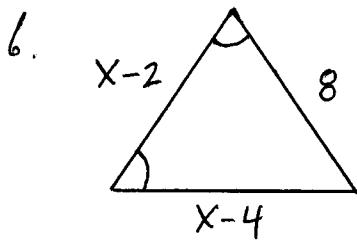
1. $\triangle ABD \cong$ _____

2. $\angle A \cong \angle C$ because _____

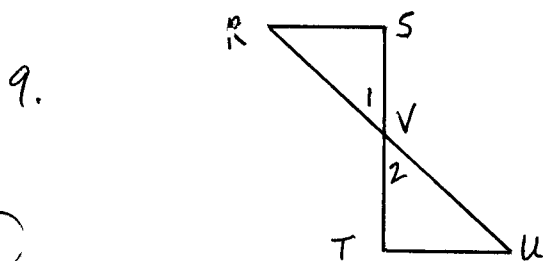
STATE THE POSTULATE OR THEOREM YOU COULD USE TO PROVE THE TRIANGLES CONGRUENT. IF NONE EXIST, WRITE "NONE"



FIND X:



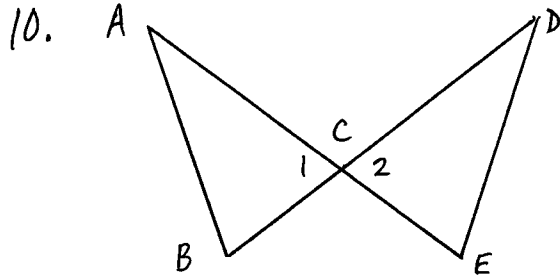
FILL IN THE MISSING REASONS:



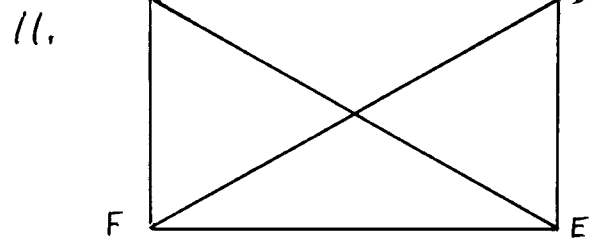
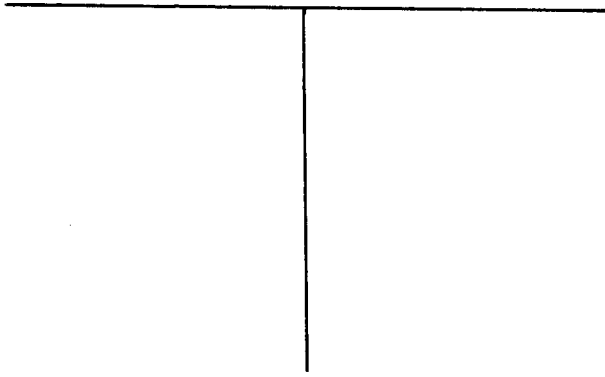
Given $\overline{RS} \parallel \overline{TU}$
 V is midpt of \overline{RU}
 Prove $\overline{RS} \cong \overline{TU}$

- | | |
|--|----|
| 1. $\overline{RS} \parallel \overline{TU}$ | 1. |
| 2. $\angle R \cong \angle U$ | 2. |
| 3. V is midpt of \overline{RU} | 3. |
| 4. $\overline{RV} \cong \overline{VU}$ | 4. |
| 5. $\angle 1 \cong \angle 2$ | 5. |
| 6. $\triangle RSV \cong \triangle TVU$ | 6. |
| 7. $\overline{RS} \cong \overline{TU}$ | 7. |

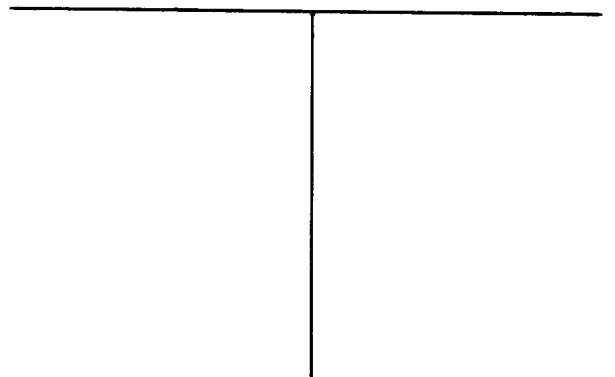
SOLVE THE FOLLOWING PROOFS :



Given $\overline{AC} \cong \overline{CD}$ Prove $\overline{AB} \cong \overline{DE}$
 $\overline{BC} \cong \overline{CE}$



Given $\overline{CE} \cong \overline{DF}$ Prove $\angle C \cong \angle D$
 $\overline{CF} \cong \overline{DE}$



*** ANSWERS ***

- | | | | |
|-----------------|------------------------------------|---------------|--------------|
| 1. ΔCDB | 2. CPCTC or Def \cong Δ s | 3. ASA or AAS | 4. SAS |
| 5. None | 6. $X = 12$ | 7. $X = 80$ | 8. $X = 105$ |

9-1) Given 2) IF lines \parallel then alt-int \angle s \cong 3) Given 4) Def of midpoint
 5) Vert \angle s \cong 6) ASA Post 7) CPCTC or Def \cong Δ s

10 - Proof may vary :

- | | |
|--|----------------------------|
| 1) $\overline{AC} \cong \overline{CD}$, $\overline{BC} \cong \overline{CE}$ | 1) Given |
| 2) $\angle 1 \cong \angle 2$ | 2) Vert \angle s \cong |
| 3) $\Delta ACB \cong \Delta DCE$ | 3) SAS Post |
| 4) $\overline{AB} \cong \overline{DE}$ | 4) CPCTC |

11 - Proof may vary :

- | | |
|--|-------------------|
| 1) $\overline{CE} \cong \overline{DF}$, $\overline{CF} \cong \overline{DE}$ | 1) Given |
| 2) $\overline{FE} \cong \overline{FE}$ | 2) Reflexive Prop |
| 3) $\Delta CFE \cong \Delta DEF$ | 3) SSS Post |
| 4) $\angle C \cong \angle D$ | 4) CPCTC |