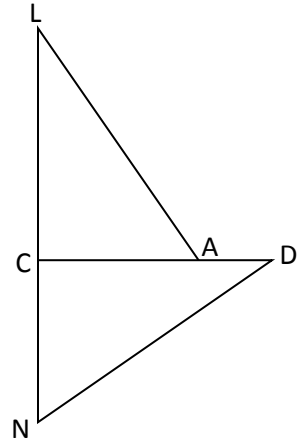Name_____ Date_____Section_____

Geometry Lesson 4-9: Sequence of Rigid Motion Proofs (from Geometry Common Core Sample Problems)
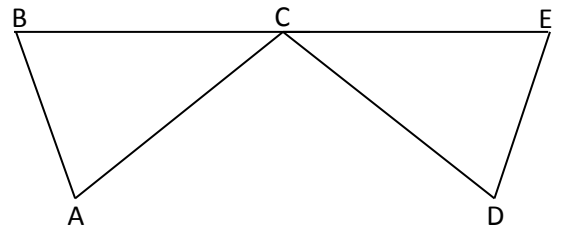
PROBLEM SET for Homework:

1. **Given:** $\Delta LAC \cong \Delta DNC$

    Identify a precise series of rigid motions ΔLAC onto ΔDNC .

2. **Given:** $\Delta DEC \cong \Delta ABC$

    Identify a precise series of rigid motions that maps ΔDEC onto ΔABC .

3. **Given:** $\Delta ABC \cong \Delta DEF$

    Identify a precise series of rigid motions that maps ΔABC onto ΔDEF .

4. **Given :** $\Delta ABD \cong \Delta AGE$

    Identify a precise series of rigid motions that maps ΔABD onto ΔAGE .
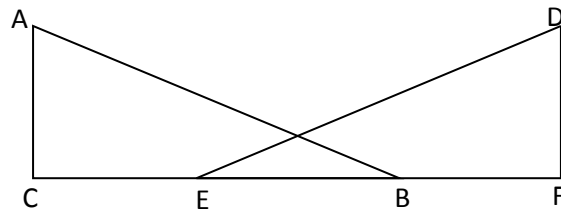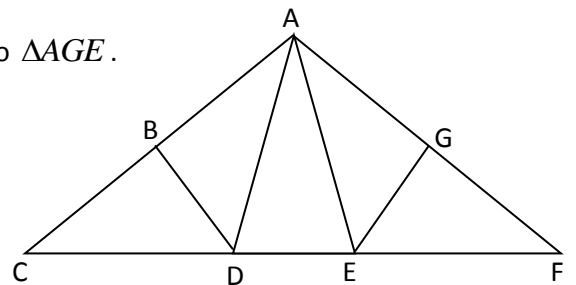
5. **Given :** $\triangle ABC \cong \triangle DCB$

   Identify a precise series of rigid motions that maps $\triangle ABC$ onto $\triangle DCB$.
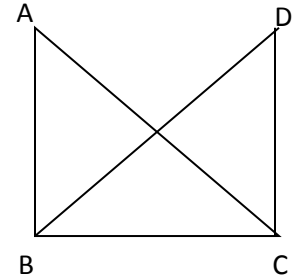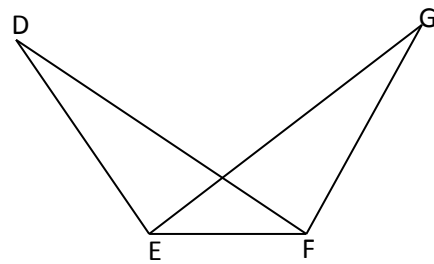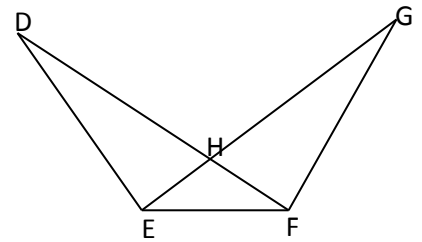

6. **Given :** $\triangle DEF \cong \triangle GFE$

   Identify a precise series of rigid motions that maps $\triangle DEF$ onto $\triangle GFE$.

7. **Given :** $\triangle DHE \cong \triangle GHF$

   Identify a precise series of rigid motions that maps $\triangle DHE$ onto $\triangle GHF$.

8. **Given :** $\triangle JLP \cong \triangle JNK$

   Identify a precise series of rigid motions that maps $\triangle JLP$ onto $\triangle JNK$.