AIM:

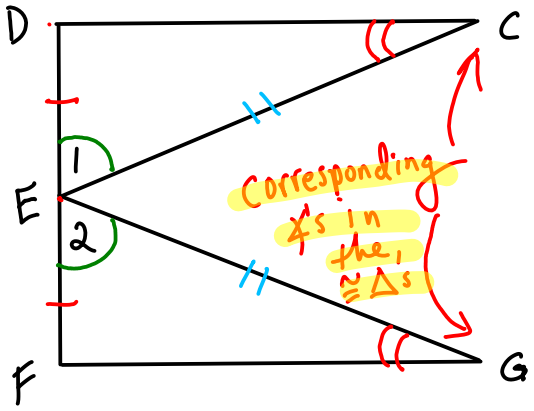
paragraph

Students will learn the meaning of CPCTC a use it in ℙ proofs.

DO NOW:

Copy the diagram and explain -- using sentences -- why $\triangle DEC \cong \triangle FEG$.

Given: E is midpt of $\overline{DF}$ ✓
$\measuredangle 1 \cong \measuredangle 2$ ✓
$\overline{CE} \cong \overline{GE}$ ✓



Extension to Do Now:

Prove: $\measuredangle C \cong \measuredangle G$.

✳ ℙ proof:

Since E is the midpt of $\overline{DF}$, $\overline{DE} \cong \overline{FE}$ by defn of midpt. We are given $\measuredangle 1 \cong \measuredangle 2$. Also, we are given $\overline{CE} \cong \overline{GE}$. By SAS, it is true that $\triangle DEC \cong \triangle FEG$. ∎

Finally, $\measuredangle C \cong \measuredangle G$ by CPCTC.