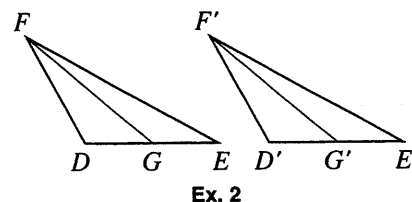
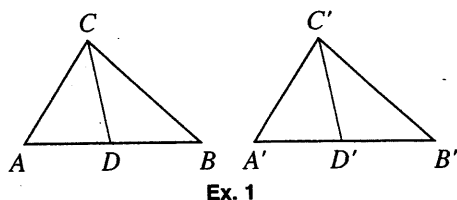
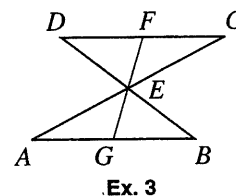


EXERCISES

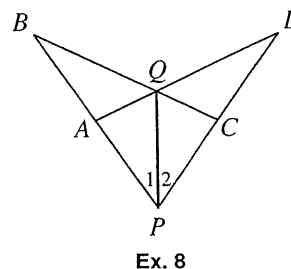
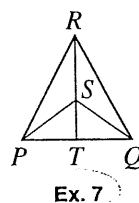
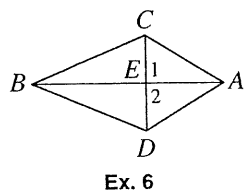
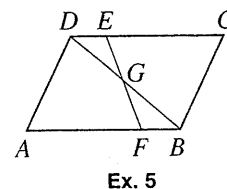
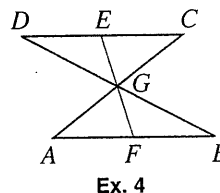


1. Given: $\triangle ABC \cong \triangle A'B'C'$, \overline{CD} bisects $\angle C$, $\overline{C'D'}$ bisects $\angle C'$.
Prove: $\overline{CD} \cong \overline{C'D'}$.
2. Given: $\triangle DEF \cong \triangle D'E'F'$, \overline{FG} and $\overline{F'G'}$ are medians.
Prove: $\overline{FG} \cong \overline{F'G'}$.

3. Given: \overline{AEC} , \overline{BED} , and \overline{GEF} ; $\overline{AE} \cong \overline{CE}$, $\overline{FE} \cong \overline{GE}$.
Prove: a. $\triangle FEC \cong \triangle GEA$.
b. $\angle C \cong \angle A$.
c. $\triangle DEC \cong \triangle BEA$.



4. Given: \overline{AC} and \overline{BD} bisect each other at G; \overline{EGF} .
Prove: a. $\triangle DGC \cong \triangle BGA$.
b. $\angle D \cong \angle B$.
c. $\overline{GE} \cong \overline{GF}$.
5. Given: $\overline{AD} \cong \overline{CB}$, $\overline{DC} \cong \overline{BA}$, \overline{EF} bisects \overline{BD} at G.
Prove: a. $\triangle ADB \cong \triangle CBD$.
b. $\angle ABD \cong \angle CDB$.
c. $\overline{FG} \cong \overline{EG}$.



6. Given: $\overline{AC} \cong \overline{AD}$, $\overline{BC} \cong \overline{BD}$, \overline{AB} intersects \overline{CD} at E.
Prove: $\angle 1 \cong \angle 2$.
7. Given: $\overline{RP} \cong \overline{RQ}$, $\overline{SP} \cong \overline{SQ}$.
Prove: \overline{RT} bisects \overline{PQ} .
8. Given: \overline{PQ} , \overline{PAB} , \overline{PCD} , \overline{AQD} , and \overline{CQB} , $\angle 1 \cong \angle 2$, $\overline{AP} \cong \overline{CP}$.
Prove: $\overline{QB} \cong \overline{QD}$.