

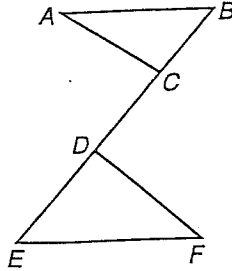
Geometry - MT-8

Proofs

Show proofs on a separate sheet of paper

1.

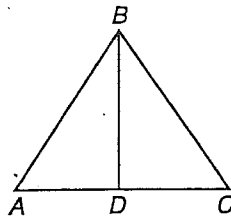
Given: $\overline{AB} \parallel \overline{EF}$
 $\overline{AC} \parallel \overline{DF}$
 Prove: $\triangle ABC \sim \triangle FED$



2.

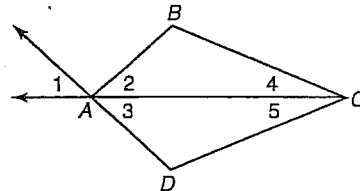
Write a two-column proof.

Given: $\overline{BD} \perp \overline{AC}$
 D bisects \overline{AC} .
 Prove: $\overline{AB} \cong \overline{CB}$



3.

Given: $\angle 2 \cong \angle 1$
 $\angle 4 \cong \angle 5$
 Prove: $\overline{BC} \cong \overline{DC}$



write an indirect proof.

4.

Given: $m\angle 1 + m\angle 2 \neq 180$
 Prove: $a \nparallel b$

