

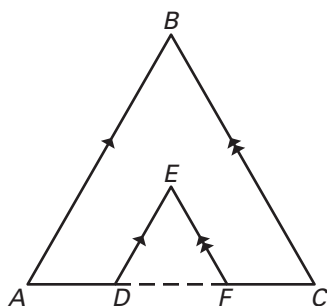
**Interdisciplinary Application**

For use with pages 202–210

**Artists**

**ART HISTORY** Vito Acconci is a popular American sculptor and artist. He was born in New York City, New York in 1940 and actually began his career as a poet. His art career has ranged from photography, to film and video, and even to the creation of furniture and prototypes of houses. His most recent art focuses on architecture and landscape design that uses public and private space. In 1995, he designed a school entrance in which all the architectural aspects of the entrance were visually reflected on the ground of the courtyard using stamped concrete, planters, and other objects. His art definitely has a unique way of looking at the environment around us.

One of his furniture creations called the *Name Calling Chair* uses a variety of geometric shapes such as squares and triangles. The back of the chair is shown in the diagram below. In the diagram,  $\overline{AB} \parallel \overline{DE}$  and  $\overline{CB} \parallel \overline{FE}$ .



1. What can be said about  $\angle FCB$  and  $\angle CFE$ ?
2. Show that  $\angle CAB \cong \angle FDE$  and  $\angle ACB \cong \angle DFE$ .
3. Is  $\angle ABC \cong \angle DEF$ ? Explain.
4. Is  $\triangle ABC \cong \triangle DEF$ ? Explain.