Handout 13

Constructing a Square

Student Activity:

1. Write down as many generalizations (theorems, definitions, properties, and corollaries) as you can that are related to the square.

   For example: A square is a parallelogram with a right angle and two adjacent sides equal in length.

   (We shall want you to discuss your responses with the rest of the group, so please write them on OHP transparency).

2. Think about which of these generalizations can be used to construct a square using Cinderella. Come up with as many different and various methods as you can to construct a square using Cinderella. In each construction method, you should:

    - List the construction algorithm.
    - Explain the theoretical background of the construction algorithm.
    - Justify the construction algorithm order.

3. How can the different methods of construction be classified?

   Classification criteria: