Handout 12

Constructing a Rectangle

Student Activity:

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

    For example: A rectangle is a parallelogram with a right angle.

    (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 rectangle using Cinderella. Come up with as many different and various methods as you can to construct a rectangle 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: