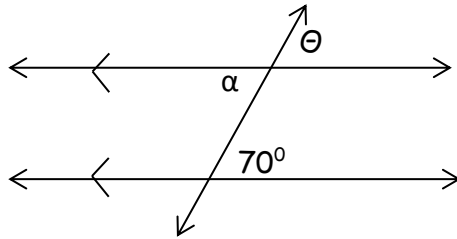


## Constructing parallel lines and a perpendicular from a point to a line.

- You have learned to:
- 1) Copy a segment
  - 2) Copy an angle
  - 3) Construct a perpendicular bisector
  - 4) Construct an angle bisector

These four tools are ALL you need to do ANY construction.

For example, review what you know about parallel lines.

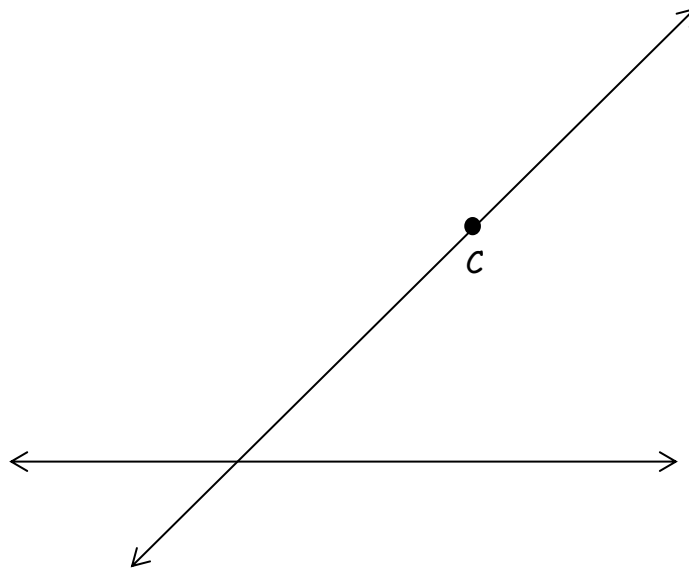


$\theta = \underline{\hspace{1cm}}$  because \_\_\_\_\_

$\alpha = \underline{\hspace{1cm}}$  because \_\_\_\_\_

### 1. Constructing parallel lines.

By copying an angle, construct the parallel line through point C.



List the steps you used:

**2. Constructing a perpendicular from a point to a line.**

Use what you know about constructing perpendicular bisectors, to create  $\overleftrightarrow{CD}$  perpendicular to the given line. Hint: Make an isosceles triangle first.

• C



List the steps you used in order:

Write a question you still have about constructing parallel lines or a perpendicular from a point to a line: