

2-3 Proving Theorems

(p728)

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For two-column proofs we use *deductive reasoning*:

Reasons we can use in proofs:

given
properties
postulates
theorems
definitions

Chapter 1 definitions needed for proofs:

- definition of congruence

Two segments are congruent if and only if their lengths are equal.
(measures)

- definition of midpoint

A midpt. divides a segment into 2 equal segments.

- **definition of segment bisector**

A segment bisector divides a segment into 2 = segments.

- **definition of angle bisector**

An angle bisector ~~the~~ is a ray that divides an angle into 2 = \angle s.