

Fo prove certain theorems, you may need to add a line, a segment, or a ray to a line. For prove certain theorems, you may the proof of the Triangle Sum Theorem, diagram. An autiliary line is used in the proof of the Triangle Sum Theorem.

PROOF

Triangle Sum Theorem

Giron AABC

Prove $m \angle 1 + m \angle 2 + m \angle 3 = 180^{\circ}$

F. Taker Sec. Proposit

a. Draw an assoiliary line through B that





c. By substitution,
$$m \angle 1 + m \angle 2 + m \angle 3 = 180^{\circ}$$
.

Plant. STATEMENTS

Sec. Action a. 1. Draw BD parallel to AC.

b. 2.
$$m\angle 4 + m\angle 2 + m\angle 5 = 180^{\circ}$$

4.
$$m \angle 1 = m \angle 4$$
, $m \angle 3 = m \angle 5$

c. 5.
$$m \angle 1 + m \angle 2 + m \angle 3 = 180^{\circ}$$

REASONS

- 1. Parallel Postulate (Post. 3.1)
- 2. Angle Addition Postulate (Post 1): and definition of straight angle
- 3. Alternate Interior Angles Theorem (Thm. 3.2)
- 4. Definition of congruent angles
- 5. Substitution Property of Equality



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