7.7 Angle and Proofs

Coool Definitions

Postulates

Theorems. Stammats that
have to be proven true

Complimentary
m21+m22=70
Supplementary
m21+m22=180

Congruent

two things that have the same measure

 $m21 = 90^{\circ}$   $m21 = 90^{\circ}$  m21 = m22

Congruent Compliments Than

If Two angles are complimentary to
the same or congruent angles, then
those two angles are congruent

If 412 somplimentary

12,13 complimentary

then ml = ml3

Cine 11,12 Comp 12,65 Comp Rove mels mes

1. L12 comp L2, L5 comp

2. m21+m22=90

3. m22+m23=90

4. m21=90-m2

5. m23=90-m2

6. m21=m23

Consum

def of comp

def of comp

subtraction (m22)

subtraction (m22)

substitution

Congruent Suppliments Theorem

If two angles are supplementary to the same or congruent angler, then the two angles are congruent

1/22 Supplem
22,23 supplem then 21=23

Straight angle An angle whose mensure is 1800

y 33

Vertical Angles

Opp angles formed when

a lines intersect

4163 vertical C's

62,64 vertical C's

Angle Addition Pas

MLABC + MLCBD = MLABD

MLI + ML2 = MLABD

Vertical Angles Thm
All vertical angles are congruent

2 12,24 vortice 2's m21=m23

Given 21,22 form a straight L

12,25 form a straight L

22,25 form a straight L

3 Prove M4=M23

1 21,22 and 21,23 forma straight L

2 m21+m22-180"

2 m22+m23=180"

3 21,22 and 23,27 are supplementary

3 21,22 and 23,27 are supplementary

(congruent supplements

4 m21 = m23