Types of Proofs Logical order Formal Two Column Paragraph Zaformal Flow Coordinate Proof Formal

Indirect Proof
(Not direct)

If P then Q

Law of detachment

If P then Q is true
and P is true
then Q is true

LC < 0 is a contradiction

If our opposite statement gets us an answer that is benown to be false

then the original is true

1. Use Hypothesis as
given and assume it is true
2. make assumption that is
opposite of the conclusion
3. Carry out steps in logical order
until you reach a contradiction
4. The contradiction proves your assumption
is false, thereby showing original
statement is true

TF A+B>100 then A>50 on B>50

D Both > 50 2) Both < 50

Not helpful A+B > 100

A>50 6>50

A+B < 50, B < 50

A+B < 50+50

A+B < 100

A+B < 100

A+B < 100

Contradiction

Contradiction

Hinge Theorem

2 32: doors

I door is open at a 23° angle

I toor is open at a 12° angle

If ABDETE

ACTOR

ADDITION

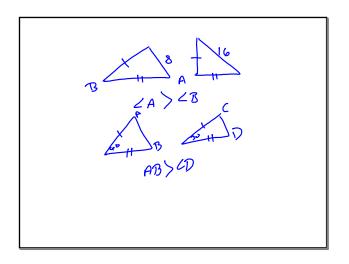
ATTERIAN

A AB = DE

AC DF

and BC > EF

Than LA > LD



P305-307 2-Beven 26 is an indirect proof