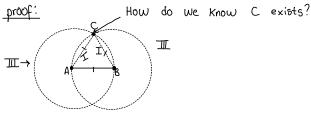


N. L = L V. 4+6 < 2L

型· ---•->- (五,)

<u>Proposition</u> I

· You can make an equilateral triangle with a given line segment as its base.



Adding Postulates A & 5 to I-I still leaves an incomplete system. ea points between other points on a line?

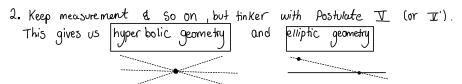
Hilbert's Axioms for 3-D geometry have about 20 axioms. (Stripped down to 2-D only, you get about 17 axioms)

We'll look at two kinds of variations of geometric axioms

1. Toss away axioms having to do with measurement & "betweeneers" &...

All you keep are points and lines & how they are connected.

This affine & projective geometry



The Simplest affine:

geometry: four "points" and Six "lines"



This Satisfies the parallel postulate.