

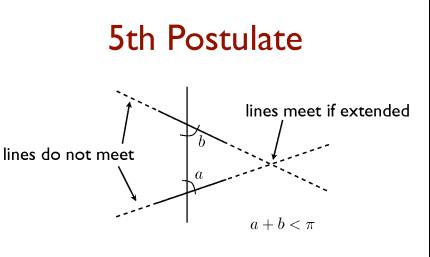
A bit of History ...



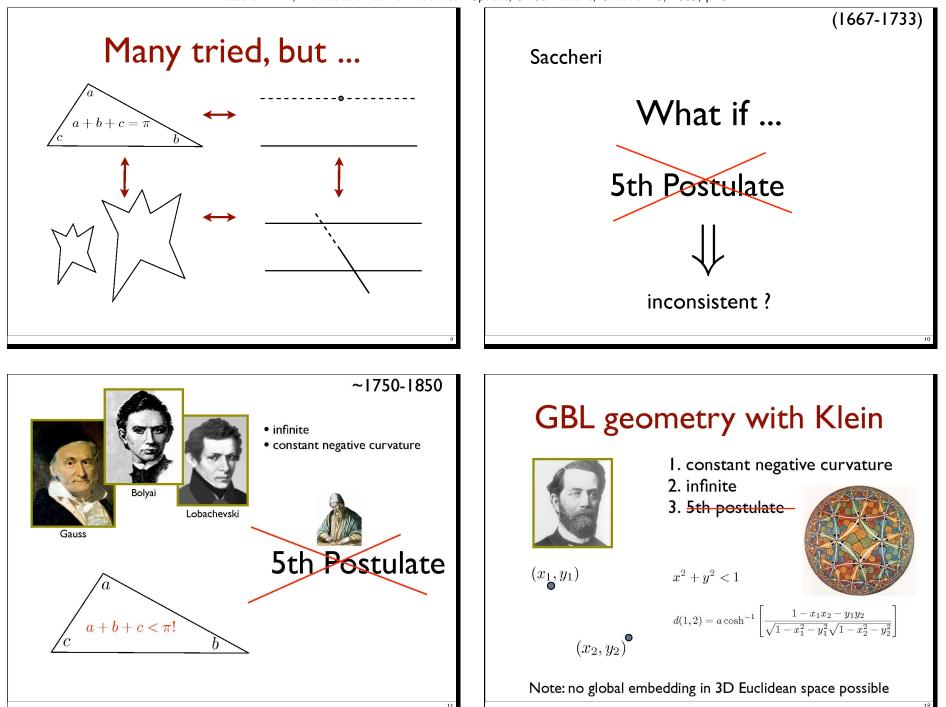
Euclid's Postulates

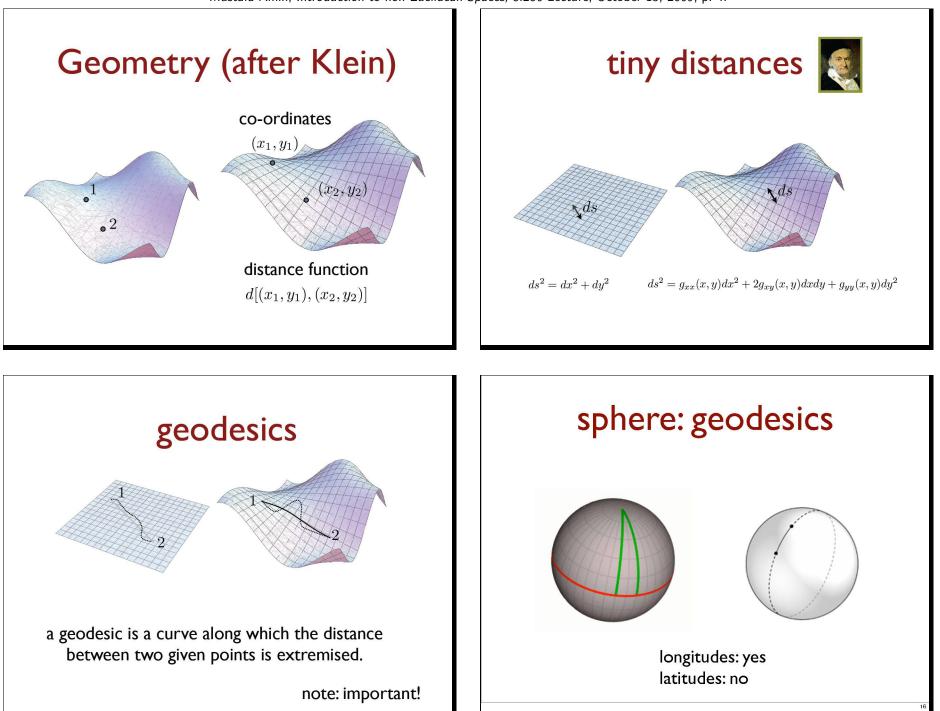


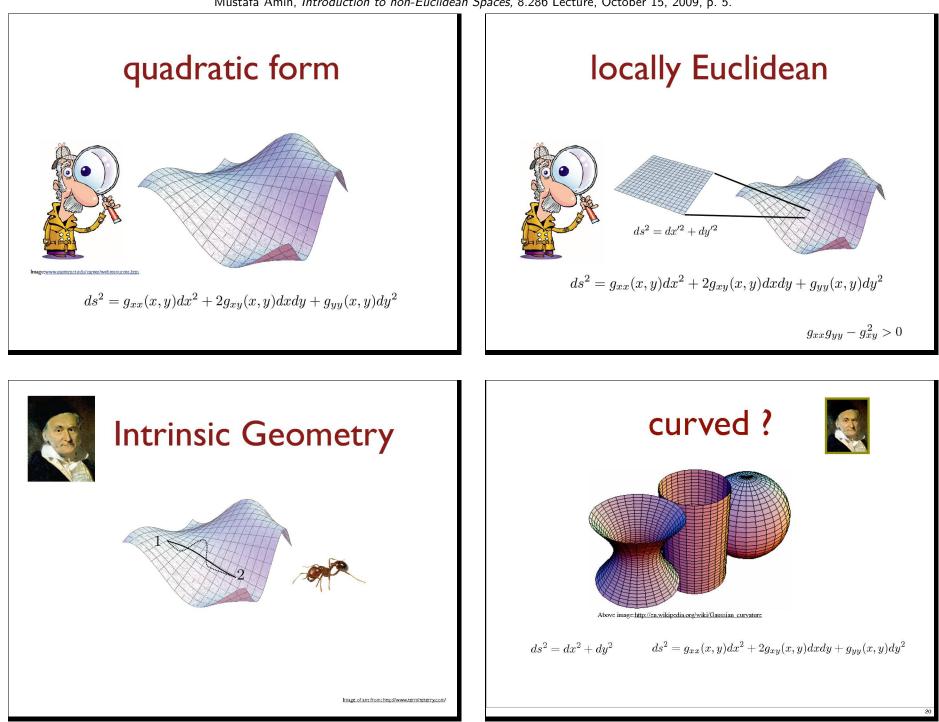
- I. A straight line segment can be drawn joining any two points.
- 2. Any straight line segment can be extended indefinitely in a straight line.
- 3. Given a straight line segment, a circle can be drawn having the segment as radius and one endpoint as center.
- 4. All right angles are congruent.
- 5. If a straight line falling on two straight lines makes the interior angles on the same side are less than the two right angles, the two straight lines if produced indefinitely meet on that line on which the angles are less than two right angles

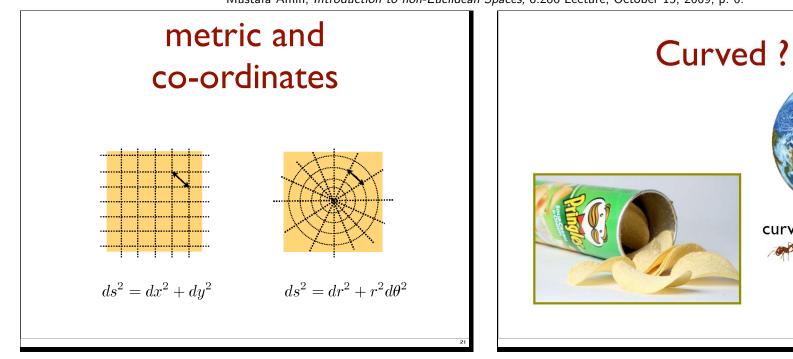


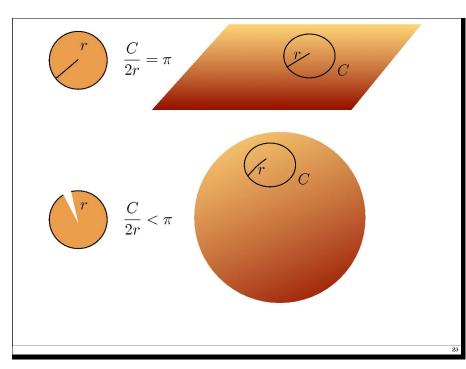
5. If a straight line falling on two straight lines makes the interior angles on the same side are less than the two right angles, the two straight lines if produced indefinitely meet on that line on which the angles are less than two right angles











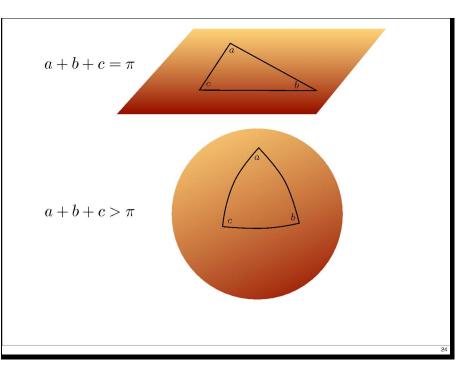
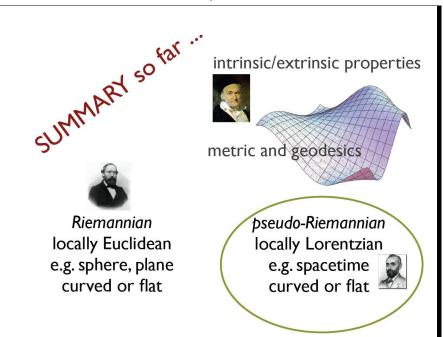
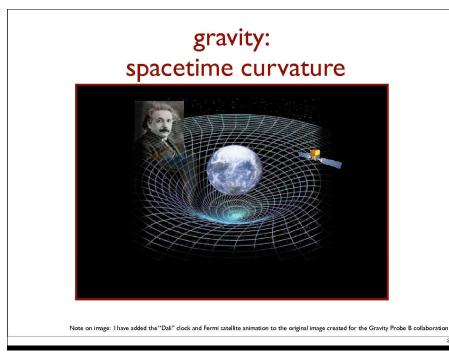


Image: www.earthshope.org/

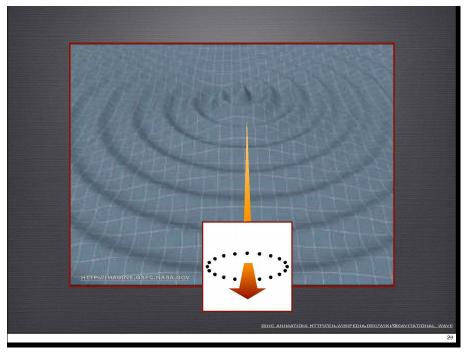
curved ?











Mustafa Amin, Introduction to non-Euclidean Spaces, 8.286 Lecture, October 15, 2009, p. 8.

References

- Alan's notes
- Rindler's book on Gravitation
- Personal notes (from class taught for EPGY)