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completely rejects the
validity of Euclid 's fifth
postulate and modifies
his second postulate.
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fifth postulate is:
through a point not on
a given line there is
only one line parallel to
the given line.

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Riemannian metric. •A
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Riemannian metric is a
an inner product $g(u, v)$ defined over the
tangent space varying
smoothly over M . • In
coordinates, it
corresponds to a
smooth family of
positive-definite
matrices.

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Riemann's
revolutionary ideas
generalized the

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which had been
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yardsticks and
protractors. These
tools are represented
by a family of inner-
products. In Riemann-
Finsler geometry (or
Finsler geometry for
short), one is in
principle equipped with
only a family of
Minkowski norms. So
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but protractors are not.

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