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investigated using the synthetic approach. Differential geometry takes another path: curves are represented in a parametrized form, and their geometric properties and various quantities associated with them, such as the curvature and the arc length, are expressed via derivatives and

Differentiable curve
- Wikipedia

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Differential geometry | Britannica

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Version Summer, 2016

Theodore Shifrin

University of Georgia

Dedicated to the

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Chern, my adviser and

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The name of this

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analyse each word to
see what it is about.

Geometry is the part of
mathematics that
studies the 'shape' of
objects. The name
geometry comes from
the greek geo, earth,
and metria, measure;
in the dawn of
mathematics,
geometry was the

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