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 $y(t), z=z(t)$, where $t \in [a, b]$, and the
equations $x=x(t), y=y(t), z=z(t)$ are
called parametric equations of a
curve γ . In the case that a regular
curve is diffeomorphic to a circle,

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These are all the geodesics since now
for any point and any direction, there
is a unique such curve. 2.9.2 Geodesics
on surfaces of revolution. We look at
the surface of revolution $\gamma(u;v) =$
 $(f(u)\cos v; f(u)\sin v; g(u))$; with $f^2 = u^2 +$

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$g^2u=1$ and $f>0$. So $l=du^2+f^2(u)dv^2$:

Hence two geodesic equations d/dt

$$(Eu' + Fv') = 1 \quad (E.$$

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Differential geometry is a

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mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of

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differential geometry during the 18th century and the 19th century. Since the late 19th century, differential geometry has grown into a field concerned more generally with the geomet

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Geodesics are curves on the surface
which satisfy a certain second-order
ordinary differential equation which is
specified by the first fundamental
form. They are very directly
connected to the study of lengths of
curves; a geodesic of sufficiently short

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length will always be the curve of shortest length on the surface which connects its two endpoints. Thus, geodesics are fundamental to the optimization problem of determining the shortest path between two given points on a regular surface.

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On the other hand, the use of surface theory is extremely essential in studying manifolds of positive curvatures, pseudo-holomorphic curves in symplectic manifolds etc,

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which are all active research
directions in modern differential
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geometry. Similar special
phenomenon occurs when you restrict
to 3 and 4 dimensional manifolds.

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