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Another straightforward calculation will show that $\nabla(\operatorname{grad} \operatorname{div} \mathbf{F} - \operatorname{curl} \operatorname{curl} \mathbf{F}) = \Delta \mathbf{F}$. The vector Laplacian also arises in diverse areas of mathematics and the sciences. The frequent appearance of the Laplacian and vector Laplacian in applications is

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really a testament to the usefulness of
 ∇ (div , grad), and ∇ (curl).

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18. Div grad curl and all that Theorem
18.1. Let $A \subset \mathbb{R}^n$ be open and let $f: A \rightarrow \mathbb{R}$
be a differentiable function. If $\gamma: I \rightarrow A$
is a flow line for $\nabla f: A \rightarrow \mathbb{R}^n$, then the
function $f \circ \gamma: I \rightarrow \mathbb{R}$ is increasing. Proof.

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By the chain rule, $d(f \cdot \mathbf{r})/dt(t) = \mathbf{r}'(t) \cdot f(\mathbf{r}(t)) + \mathbf{r}(t) \cdot f'(\mathbf{r}(t)) \cdot \mathbf{r}'(t)$.
Corollary 18.2. A closed parametrised curve is never the row line of

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Preliminaries Before we dig into the details, we need to set up a few

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preliminary ideas and conventions.
The first is
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the curl of a vector field. There are
two points to get over about each:

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The mechanics of taking the grad, div or curl, for which you will need to brush up your multivariate calculus.

The underlying physical meaning — that is, why they are worth bothering about. In Lecture 6 we will look at combining these vector operators.

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Lecture 5 Vector Operators: Grad, Div and Curl

The curl of the gradient of any continuously twice-differentiable scalar field is always the zero vector:

$\nabla \times (\nabla \phi) = 0$ This is a special case of the vanishing of the square of the

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manifolds, with the same geometric
interpretation, because the spaces of
0-forms and n -forms is always
(fiberwise) 1-dimensional and can be

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identified with scalar fields, while the
spaces of 1-forms and $(n - 1)$ -forms
are always fiberwise n -dimensional
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6 Div, grad curl and all that 6.1

Fundamental theorems for gradient,
divergence, and curl Figure 1:

Fundamental theorem of calculus
relates $\int_a^b f(x) dx$ and $f(b) - f(a)$.

You will recall the fundamental
theorem of calculus says $\int_a^b f(x) dx = f(b) - f(a)$ (1) in other words it 's a

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Section 6-1 : Curl and Divergence.

Before we can get into surface
integrals we need to get some
introductory material out of the way.

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That is the purpose of the first two sections of this chapter. In this section we are going to introduce the concepts of the curl and the divergence of a vector. Let 's start with the curl.

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