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tensor at an early
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cross product is

only between two

vectors in three

space dimension.

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Let $v = (v_1; v_2; v_3)$,

$u = (u_1; u_2; u_3) \in \mathbb{R}^3$. Then the

cross product is defined by $v \times u =$

$(v_2u_3 - v_3u_2;$

$v_3u_1 - v_1u_3;$

$v_1u_2 - v_2u_1)$. (0.5) It is

convenient to

consider the

operator for the

gradient as $\nabla =$

$(\frac{\partial}{\partial x_1}; \frac{\partial}{\partial x_2}; \frac{\partial}{\partial x_3})$

$(\frac{\partial}{\partial x_1}; \frac{\partial}{\partial x_2}; \frac{\partial}{\partial x_3})$

$(\frac{\partial}{\partial x_1}; \frac{\partial}{\partial x_2}; \frac{\partial}{\partial x_3})$

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@x3). Then, $rc =$

$\dagger @c @x1; @c$

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Introduction. These

notes are based on

a one-quarter (i. e.

very short) course

in fluid mechanics

taught in the

Department of

Mathematics of the

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California, Berkeley

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during the Spring of
1978. The goal of
the course was not
to provide an
exhaustive account
of fluid mechanics,
nor to assess the
engineering value of
various approxima
tion procedures.

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to a liquid or a gas -
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that a fluid deforms
easily in response
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