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calculation will show that  $\nabla \cdot (\nabla \operatorname{div} \mathbf{F} - \operatorname{curl} \operatorname{curl} \mathbf{F}) = \Delta \mathbf{F}$ . 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 really a testament to the usefulness of  $\nabla \cdot$ ,  $\nabla$ , and  $\operatorname{curl}$ .

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Preliminaries Before we dig into the details, we need to set up a few preliminary ideas and conventions. The first is

## **Div, Grad, and Curl**

the curl of a vector field. There are two points to get over about each: The mechanics of taking

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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.

## **Lecture 5 Vector Operators: Grad, Div and Curl**

The flux of the curl of a smooth vector field  $f(x,$

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$y, z)$  through any closed surface is zero. Proof: Let  $\Sigma$  be a closed surface which bounds a solid  $S$ . The flux of  $\nabla \times f$  through  $\Sigma$  is.  $\iint_{\Sigma} (\nabla \times f) \cdot d\sigma = \iiint_S \nabla \cdot (\nabla \times f) dV$  (by the Divergence Theorem)  $= \iiint_S 0 dV$  (by Theorem 4.17)  $= 0$ .

## **4.6: Gradient, Divergence, Curl, and Laplacian ...**

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1 Answer to A. Which

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of the following is zero?

A. curl grad B. curl curl

C. grad div D. div grad

B. d C.

**(Solved) - A. Which  
of the following is  
zero? A. curl grad ...**

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