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CC: curl of curl Each arrow is labeled with the result of an identity, specifically, the result of applying the operator at the arrow's tail to the operator at its head. The blue circle in the middle means curl of curl exists, whereas the other two red circles (dashed) mean that DD and GG do not exist. Third derivatives [ edit ]

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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  $df=dx$  over  $[a;b]$  and  $f(a); f(b)$ . You will recall the fundamental theorem of calculus says

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text (pamphlet) "Div, grad, curl and all that", by H. M. Schey. This 150 page easy-to-read book is one of my personal favorite

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So we can define the gradient and the divergence in all dimensions. However curl only makes sense when  $n = 3$ . Definition 18.6. The vector field  $F : A \rightarrow \mathbb{R}^3$  is called rotation free if the curl is zero,  $\text{curl } F = 0$ , and it is called incompressible if the divergence is

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zero,  $\text{div } \mathbf{F} = 0$ . Proposition 18.7.

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5.8 Some definitions involving div, curl and grad A vector field with zero divergence is said to be solenoidal. A vector field with zero curl is said to be irrotational. A scalar field with zero gradient is said to be, er, well, constant.

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