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May 29th, 2020 - divergence is a scalar that is a single number while curl is itself a vector the magnitude of the curl measures how much the fluid is swirling the direction indicates the axis around which it tends to swirl these ideas are somewhat subtle in practice and are beyond the scope of this course'

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May 31st, 2020 - 18 div grad curl and all that theorem 18 1 let a \mathbb{R}^n be open and let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a differentiable function if $r: [a, b] \rightarrow \mathbb{R}^n$ is a curve for $r: [a, b] \rightarrow \mathbb{R}^n$ then the function $f \circ r$ is increasing'

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May 27th, 2020 - 5 2 lecture 5 vector operators grad div and curl itisusualtode?nethevectoroperatorwhichiscalled del or nabla $\nabla \cdot \mathbf{r} = \text{div } \mathbf{r}$ '

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'6 div grad curl and all that department of physics

May 27th, 2020 - 6 div grad curl and all that 6 1 fundamental theorems for gradient divergence and curl figure 1 fundamental theorem of calculus relates $\frac{df}{dx}$ over a b and f a f b you will recall the fundamental theorem of calculus says $\int_a^b \frac{df}{dx} dx = f(b) - f(a)$ in other words it s a connection between the rate of change of the function over"gradient divergence and curl calculus chegg tutors
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May 26th, 2020 - the of a vector field is the flux per udivergence nit volume the divergence of a vector field is a number that can be thought of as a measure of the curl grad f vector field curl div f scalar function curl curl f vector field 2 of the above are always zero vector 0 scalar 0'

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what is an intuitive explanation for operatorname div

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