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Okay this may sound stupid but I need a little help... What do $\frac{d}{dx}$ and $\frac{dy}{dx}$ mean? I need a thorough explanation. Thanks.

Well, Δx means different things depending on the context. For example, it has a particular meaning in variational calculus, and a completely different one in functional ...

These identities for $\int_0^1 x^{-x} dx$ and $\int_0^1 x^x dx$ are sometimes called the "sophomore's dream". Look that up on Wikipedia.

A "signed definite integral" for computing work and other "net change" calculations. The value of an expression such as $\int_0^1 x^2 dx$ comes out the same under all these interpretations, ...

I just finished taking my first year of calculus in college and I passed with an A. I don't think, however, that I ever really understood the entire $\frac{dy}{dx}$ notation (so I just focused on ...

I'm taking differential equations right now, and the lack of fundamental knowledge in calculus is kicking my butt. In class, my professor has done several implicit differentiations. I ...

I know dy/dx for example means "derivative of y with respect to x," but there's another context that confuses me. You will generally just see a dx term sitting at the end of an integral equation an...

The symbol used for integration, \int , is in fact just a stylized "S" for "sum"; The classical definition of the definite integral is $\int_a^b f(x) dx = \lim_{\Delta x \rightarrow 0} \sum_{x=a}^b f(x) \Delta x$...

I understand the meaning of $\frac{dy}{dx}$ and $\int f(x) dx$, but outside of that what do dy , du , dx etc..

mean? When I took calc I, derivatives and integrals were given a ...

I am working on trying to solve this problem: Prove: $\int \sin^n x \, dx = -\frac{1}{n} \cos x \cdot \sin^{n-1} x + \frac{n-1}{n} \int \sin^{n-2} x \, dx$...

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