

radical pi



undergraduate math club

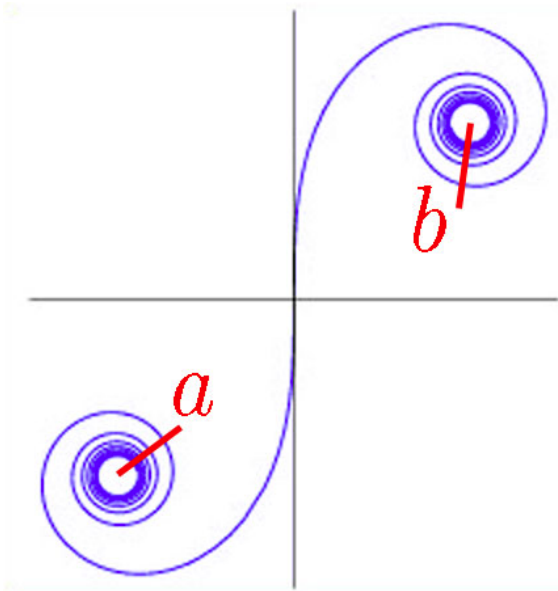
Wednesday, 5pm  
May 16, 2007  
Math Tower (MW) 724

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## A Counterexample (?) to the Fundamental Theorem of Calculus

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lecture by  
Prof. Gerald A. Edgar

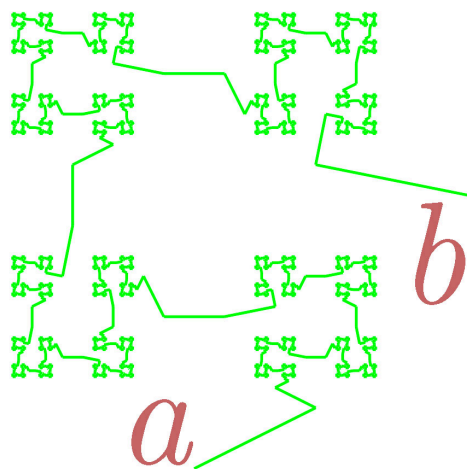


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If  $a$  and  $b$  are points in  $\mathbb{R}^n$ ,  
 $C$  is a curve from  $a$  to  $b$ ,  
and  $f$  is a  $C^1$  function, then...

$$\int_C df = f(b) - f(a)$$

Right?



Plus: free food!

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**But wait!**  
In 1935,  
Hassler Whitney published  
a counterexample to that.

Well, then, what is wrong  
with all of our textbooks?

Come and find out!

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