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## Inside-Outside

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## Death of an English Major

Caroline Dillard

For our next problem  
we're going to start by  
taking the second derivative  
of the function.

*Of course we are.*

The function is negative  
forty-three times the square  
root of the natural logarithm  
of  $x$  to the power of negative  
one-third divided by  $x$  plus  
five raised to the four-fifths.

*If I am to die today  
please let it be now.*

So what's the first thing we do?

*I'm in a class of crickets.*

Find  $f$  prime.

*Obviously...*

And we'll find the answer  
with the chain rule.

Definitely knew that.

Well actually we'll use both  
the chain rule and the  
quotient rule.

*The more the merrier.*

Now that we've done that we  
can use the First Derivative Test  
to find critical numbers and intervals.

*Right.*

And then  $f$  double prime...

*Sorry, what?*

...will show the function's  
concavity.

*Gesundheit.*

Are you with me?

*Nope.*

I've gotten you started so you  
should be able to finish the  
rest on your own.

...

And don't forget the test  
is on Wednesday.



**Inside-Outside** Nick Young