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Subject: Re: Compute area between curves

Posted by [frankosuna](#) on Mon, 13 Oct 2008 01:31:26 GMT

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On Oct 12, 3:17 pm, James Kuyper <jameskuy...@verizon.net> wrote:

> frankosuna wrote:

>> Dear IDLers,

>

>> How can I compute the area between two curves given two functions?

>

> Are the curves closed? That is, do you create the complete curve by

> drawing a line from the final <x,y> pair to the first <x,y> pair?

>

> Are the x values the same for the two curves? Are they evenly spaced?

>

> Note: you don't need to post the same question multiple times, this is a

> newsgroup, not a chat room. Your message will stay up indefinitely. As a

> general rule, you might have to wait 24 hours or more before getting an

> answer.

The curves are not closed... I posted some images of the actual rings

I am trying

to compare. They look like parabolas. The rings might differ in shift

and slight rotation from each other. So because the rings might be

shifted, they probably have different x-values. Also the x-values are

continuous..meaning that once the ring starts.. there is an (x,y)

value until the end of the ring. When I was extracting the (x,y)

location of every pixel that makes up the rings I noticed that a lot

of x values had multiple y's. To fix this I used the MIN x value for

that group in order to be able to compute the area. I'm not sure if

that's bad or good.

I am using INT\_TABULATED and TSUM currently and get very close values

for the most part. I compute the area under the curve for both rings

and then subtract but I'm not sure if that is correct either.

Thanks,

Frank

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