

---

Subject: Re: Finding a Tangent line

Posted by [Chris Lee](#) on Sat, 19 Feb 2005 14:36:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

In article <1108750898.355794.131660@l41g2000cwc.googlegroups.com>, "AMandra@gmail.com" <AMandra@gmail.com> wrote:

> I'm very new to IDL, so I apologize if this is simple problem. I'm  
> doing research involving infrared images of Mars. A graph of pixel  
> saturation will be linear than go cubic to a zero slope as it saturates.  
> However, the test in the program we run doesn't seem to work with some  
> images that were given extra current. What I'd like to do is test the  
> slope of the tangent line until it goes towards zero for saturation,  
> however I'm not sure how to do this and I can't make heads or tails of  
> the help file on DERIV or anything else I think would be helpful. The  
> fit is being taken with polyfit. I appreciate any help, and I'm sorry  
> if that was extremely vague.

A graph of pixel saturation against what will be linear? If it's a graph of pixel saturation versus current. Plot the data? Assuming you have that data, i.e.

plot, current, pixel\_value

but you don't say what data you have, or what the test program is.

Chris.

---