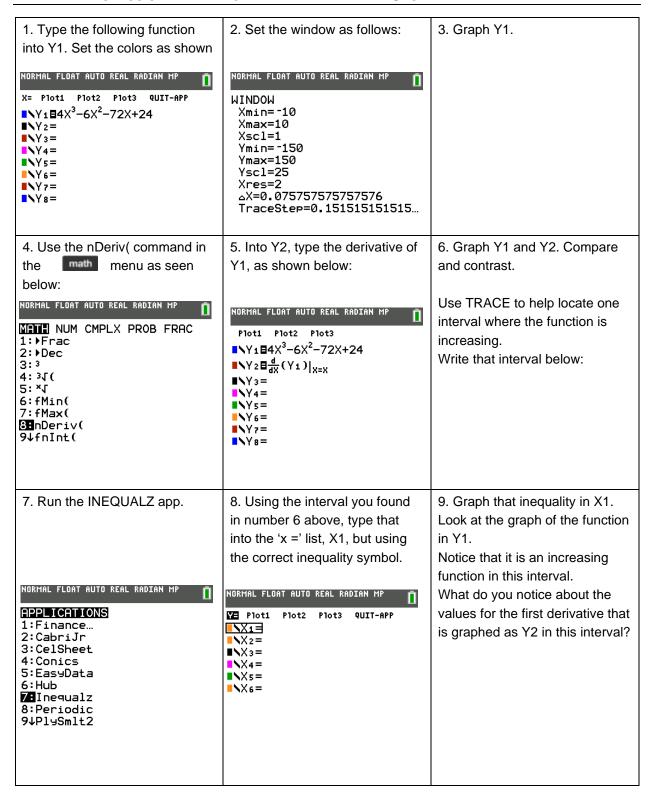


1st Derivative Test: Visualize Inc/Dec Function Intervals

TI PROFESSIONAL DEVELOPMENT

STUDENT





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10. Turn off the graph of X1. Use TRACE to help locate the other interval where the function is increasing. Write that interval below:	11. Using the interval you found in number 10 on the left, type that into the 'x =' list, X2, but using the correct inequality symbol.	12. Graph that inequality in X2. Look at the graph of the function in Y1. Notice that it is an increasing function in this interval. What do you notice about the values for the first derivative that is graphed as Y2 in this interval?
13. Keep the inequality on that is in X2. Turn the inequality in X1 back on.	14. Graph.	15. Describe the interval that is unshaded mathematically. What do you notice about the values of Y1 in the interval that is unshaded by X1 and X2? What do you notice about the values of the derivative, Y2, in the interval that is unshaded by X1 and X2?