

CALCULUS

DIFFERENTIAL CALCULUS:

* $\lim_{x \rightarrow a} f(x) = L \rightarrow$ limit of a real function

* $\lim_{x \rightarrow a} f(x) = f(a) \rightarrow$ continuity of Real function

* $\frac{dy}{dx} = f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x) - f(x)}{\Delta x} \rightarrow$ derivative of real function

* $(f'(x))_{x=a} = f'(a) = \lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a}$

* $\frac{\partial F}{\partial x} = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x, y) - f(x, y)}{\Delta x}$

* $\frac{\partial F}{\partial y} = \lim_{\Delta y \rightarrow 0} \frac{f(x, y+\Delta y) - f(x, y)}{\Delta y}$

\rightarrow partial derivative

Maximum and Minimum values of $y = f(x)$:

* Substitute $f'(x) = 0$, then get the stationary points

* At any stationary points $f''(x) < 0$, we get max value of $f(x)$

At any stationary points $f''(x) > 0$, we get min value of $f(x)$

* If $f''(x) = 0$ at any stationary point then there is no max (or) min value of $f(x)$

* Among all max values and min values of $f(x)$ greatest value is called global max and smallest value is global minimum.

* If it is decided to find global max (or) global min of $f(x)$ in $[a, b]$ then we must consider function values $f(a)$ & $f(b)$ in addition to applying above procedure.

Maximum & Minimum values of Implicit function $F(x, y)$:

* Substitute $\frac{\partial F}{\partial x} = 0$ and $\frac{\partial F}{\partial y} = 0$ and get stationary or critical points.

* Calculate $r = \frac{\partial^2 F}{\partial x^2}$, $s = \frac{\partial^2 F}{\partial x \partial y}$, $t = \frac{\partial^2 F}{\partial y^2}$ at all stationary points.

* If $(rt - s^2) > 0$ & $r < 0 \rightarrow$ max value of $f(x, y)$

* If $(rt - s^2) > 0$ & $r > 0 \rightarrow$ min value of $f(x, y)$

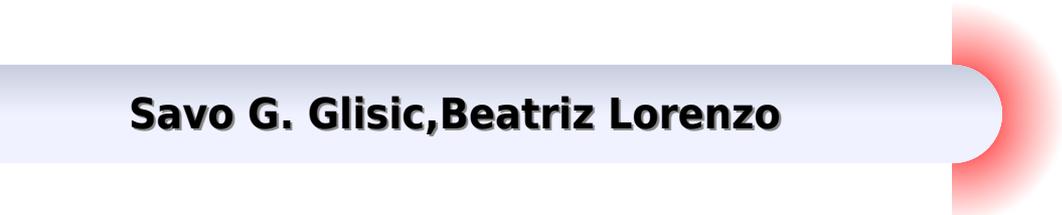
* If $(rt - s^2) < 0 \rightarrow$ No max (or) min value of $f(x, y)$ and that point is called saddle point.

* If $(rt - s^2) = 0 \rightarrow$ Cannot give any conclusion.

* If $f(x)$ in $[a, b]$ given, a & b values substituted in $f(x)$ only in order to find the max and min values.

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