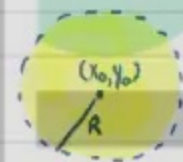


Lecture 9

13.8 Maxima and minima of functions of two variables

Notation: For $R > 0$ and $(x_0, y_0) \in \mathbb{R}^2$, we define

$$B_R(x_0, y_0) = \left\{ (x, y) \in \mathbb{R}^2 : \sqrt{(x-x_0)^2 + (y-y_0)^2} < R \right\} \\ = \left\{ (x, y) \in \mathbb{R}^2 : \|(x, y) - (x_0, y_0)\| < R \right\}.$$

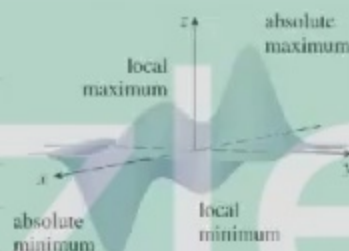


ball of radius R
centered at (x_0, y_0)

• Extrema

Definition Let $f = f(x, y)$ be a function of x and y . Then

- f has a local maximum at (x_0, y_0) if
 $\exists R > 0, f(x, y) \leq f(x_0, y_0) \quad \forall (x, y) \in B_R(x_0, y_0)$
- f has an absolute maximum at (x_0, y_0) if



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Adisak Seesanea

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Taskbar

Lock the taskbar



Automatically hide the taskbar in desktop mode



Automatically hide the taskbar in tablet mode



Use small taskbar buttons



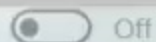
Use Peek to preview the desktop when you move your mouse to the Show desktop button at the end of the taskbar



Replace Command Prompt with Windows PowerShell in the menu when I right-click the start button or press Windows key+X



Show badges on taskbar buttons



Adisak Seesanea

Lecture 9

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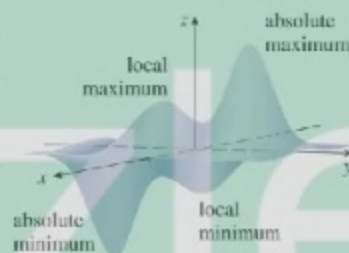


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