| Name: Mrs. Woods |  |  | Grading Quarter: $2$ | Week Beginning: 10/16/23 |
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| School Year: 23-24 |  |  | Subject: AP Calculus AB |  |
| $\begin{aligned} & 3 \\ & \text { 울 } \\ & \text { 人̀ } \\ & \stackrel{2}{2} \end{aligned}$ | Notes: | No class |  | Academic Standards: |
| $\begin{aligned} & \text { 기 } \\ & \stackrel{1}{0} \\ & \text { N} \\ & \stackrel{2}{2} \end{aligned}$ | Notes: | Obje <br> maxim <br> interv <br> Lesso <br> Notes <br> deriv <br> point | will be able to find rela nimums of a function of <br> tive test (max and mins), $x$ and mins), Inflection p erivative), and concavity | Academic Standards: <br> 5.4 Using the First Derivative Test to Determine Relative (Local) Extrema 3.D Apply an appropriate mathematical definition, theorem, or test. <br> 5.6 Determining Concavity of Functions over Their Domains 2.E Describe the relationships among different representations of functions and their derivatives. <br> 5.7 Using the Second Derivative Test to Determine Extrema 3.D Apply an appropriate mathematical definition, theorem, or test. |
| $\begin{aligned} & \sum \\ & \dot{D} \\ & \stackrel{0}{\lambda} \\ & 0 \\ & 0 \\ & \stackrel{0}{2} \end{aligned}$ | Notes: | Objec find i <br> Lesso <br> Note <br> and i <br> quot <br> Pract <br> white | will be able to use L'Ho limits. <br> eterminate limits of the ow the rule is different <br> a class then individually | Academic Standards: <br> 4.7 Using L'Hospital's Rule for Determining Limits of Indeterminate Forms 3.D Apply an appropriate mathematical definition, theorem, or test. |

$\left.\begin{array}{|l|l|l|l|}\hline & \text { Notes: } & \begin{array}{l}\text { Objective: Students will be able to analyze f' graphs to } \\ \text { find relative extrema and intervals of increasing and } \\ \text { decreasing functions. }\end{array} & \begin{array}{l}\text { Academic Standards: } \\ 5.8 \text { Sketching Graphs of Functions } \\ \text { and Their Derivatives 2.D Identify } \\ \text { how mathematical characteristics }\end{array} \\ \text { or properties of functions are } \\ \text { related in different representations. } \\ \text { Lesson Overview: } \\ \text { Notes - First derivative test (max and mins), Second } \\ \text { derivative test (max and mins), Inflection points (critical } \\ \text { points of second derivative), and concavity } \\ \text { Derivative, and Its Second } \\ \text { Derivative 2.D Identify how } \\ \text { mathematical characteristics or } \\ \text { properties of functions are related } \\ \text { in different representations. }\end{array}\right\}$

