

# AP Calculus AB: Assignment Sheet

## Chapter: Understanding the Derivative Graphically and Numerically

| Date        |   | SECTION / TOPIC                                                                                              | ASSIGNMENT                                                                                          |
|-------------|---|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| A           | B |                                                                                                              |                                                                                                     |
| 9/18        |   | The Derivative - Day 1<br>- The Limit Definition of the Derivative<br>- Graphical and Numerical Calculations | The Derivative - Day 1 Worksheet<br><br>Calculator Activity 3:<br>Zooming in to find the Derivative |
| F           |   |                                                                                                              |                                                                                                     |
| 9/21        |   | The Derivative - Day 2<br>- The First Derivative and Analyzing Graphs                                        | The Derivative - Day 2 Worksheet                                                                    |
| M           |   |                                                                                                              |                                                                                                     |
| 9/22        |   | The Derivative - Day 3<br>- Sketching The First Derivative<br>- Differentiability<br>- Velocity              | The Derivative - Day 3 Worksheet                                                                    |
| Tu          |   |                                                                                                              |                                                                                                     |
| 9/23        |   | The Derivative - Day 4<br>- Interpret to Real World Situations<br>- Interpreting a Limit as a Derivative     | The Derivative - Day 4 Worksheet                                                                    |
| W           |   |                                                                                                              |                                                                                                     |
| 9/24        |   | The Derivative - Day 5<br>- The Second Derivative, Points of Inflection,<br>and Concavity                    | The Derivative - Day 5 Worksheet                                                                    |
| Th          |   |                                                                                                              |                                                                                                     |
| 9/25        |   | The Derivative - Day 6<br>- Tangent Line Approximations<br>Ch 1 / Derivative Review                          | The Derivative - Day 6 Worksheet<br><br>Ch 1 / Derivative Practice Test                             |
| F           |   |                                                                                                              |                                                                                                     |
| <b>9/28</b> |   | <b>Ch 1 / Derivative TEST</b>                                                                                |                                                                                                     |
| <b>M</b>    |   |                                                                                                              |                                                                                                     |