

| Section of the Book                                      | Problem Set                           | Videos that go with each section                                             |
|----------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------|
| 3.1: The Definition of the Derivative                    | 1-20, 22, 26-28, 31-33, 38-42, 44     | <a href="#">Definition of the Derivative Playlist</a>                        |
| 3.2: Differentiability                                   | 1-35                                  | <a href="#">Differentiability Playlist</a>                                   |
| 3.3: Rules of Differentiation                            | 1-42, 46, 47, 49, 50, 52              | <a href="#">Rules of Differentiation</a>                                     |
| 3.4: Velocity and other Rates of Change                  | 1-4, 8-24, 34, 35, 37, 38             | <a href="#">Velocity and Rates of Change Playlist</a>                        |
| 3.5: Derivatives of Trig Functions                       | 1-10, 21-23, 25-30, 35-37, 46-48      | <a href="#">Trig Derivative Playlist</a>                                     |
| 3.6: The Chain Rule                                      | 1-40                                  | <a href="#">Chain Rule Playlist</a>                                          |
| 3.7: Implicit Differentiation                            | 1-42                                  | <a href="#">Implicit Differentiation Playlist</a>                            |
| 3.8: Derivatives of Inverse Functions                    | 1-29                                  | <a href="#">Derivatives of Inverse</a>                                       |
| 3.9: Derivative of Exponential and Logarithmic Functions | 1-54                                  | <a href="#">Derivative of Exponential and Logarithmic Functions Playlist</a> |
| Chapter 3 Review                                         | 1-48, 53-69, 70 (b,c,d), 72-74, 81-83 |                                                                              |