

AP Calculus/IB SL Winter Break Assignment

Read Chapter 5

Read section 5.1 and write the following information

- 1) 5.1.1 Area Problem
- 2) Rectangle Method for finding Areas
- 3) Definition of Antidifferentiation

Read Section 5.2 and write the following information

- 4) 5.2.1 Theorem
- 5) 5.2.2 Theorem
- 5) Integral Notation
- 6) Table 5.2.1 Integration Formulas
- 7) Properties of the indefinite integral
- 8) Definition of integral curves
- 9) Differential Equation
- 10) Initial Value Problem
- 11) Definition of Slope Field

Read Section 5.3

Read Section 5.4 and write the following information

- 12) Definition of Sigma or Summation Notation Figure 5.4.1
- 13) 5.4.1 Theorem
- 14) 5.4.2 Theorem
- 15) 5.4.3 Theorem
- 16) 5.4.4 Theorem
- 17) Numerical approximations of Area: Figure 5.4.7