



Class: AP Calculus AB
Unit 5: Analytical Applications of
Differentiation
12/11 to 2/5

Thursday 12/11	-5.1 Mean Value Theorem -Mean Value Theorem Circuit
Friday 12/12	-5.1 Mean Value Theorem -Pg 224 #41,45-47,51,52,57,81-83 -HW: Watch 5.2 Video and Fill In Notes
Monday 12/15	-5.2 Extreme Value Theorem, Global Versus Local Extrema, and Critical Points -Practice Problems In Class (Whiteboards)
Tuesday 12/16	-Big 3 Theorem Review Circuit -HW: Watch 5.3 Video and Fill In Notes
Wednesday 12/17	-5.3 Determining Intervals on Which a Function is Increasing or Decreasing -Pg 233 #5,8,11-13,20 -HW: Watch 5.4 Video and Fill In Notes
Thursday 12/18	-5.4 Using the First Derivative Test to Determine Relative Local Extrema -Pg 233 #21-55 odd
Friday 12/19	-5.1-5.4 Review Activity -Christmas Activity
Monday 12/22 – Friday 1/2	Winter Break No School
Monday 1/5	-5.5 Using the Candidates Test to Determine Absolute (Global) Extrema -5.5 Notes together in class -5.5 Practice Worksheet
Tuesday 1/6	-5.5 Using the Candidates Test to Determine Absolute (Global) Extrema -Finish 5.5 Practice Worksheet -Practice Problems with Partner in Class -HW: Watch 5.10 Video and Fill in Notes
Wednesday 1/7	-5.10 Introduction to Optimization Problems -Pg 262 #2,5,9,11,13 -HW: Watch 5.11 Video and Fill in Notes
Thursday 1/8	-5.11 Solving Optimization Problems -5.11 Ladder Activity
Friday 1/9	-5.11 Solving Optimization Problems -5.11 Worksheet

Monday 1/12	-5.6 Determining Concavity of Functions Over Their Domains -5.6 Notes Together in Class -Pg 242 #3,7,12,13,20,21,25,26,29,31 -HW: Watch 5.7 Video and Fill in Notes
Tuesday 1/13	-5.7 Using the Second Derivative Test to Determine Extrema -Pg 242 #36, 41-45 odd, 48,58,62,65,66
Wednesday 1/14	-Final Project -Semester 1 Review
Thursday 1/15	-Final Project -Semester 1 Review
Friday 1/16	-Final Project -Semester 1 Review
Monday 1/19	-NO SCHOOL
Tuesday 1/20	-Final Project -Semester 1 Review
Wednesday 1/21	SEMESTER FINALS 0-2
Thursday 1/22	SEMESTER FINALS 3-5
Friday 1/23	SEMESTER FINALS 6-7
Monday 1/26	-NO SCHOOL, Staff Records Day
Tuesday 1/27	-5.8 Sketching Graphs of Functions and Their Derivatives -5.8 Notes in Class -5.8 Worksheet
Wednesday 1/28	-5.8 Sketching Graphs of Functions and Their Derivatives -Finish 5.8 Worksheet -5.8 Matching Activity
Thursday 1/29	-Summary of Curve Sketching -Pg 172 #7,11,17,22 -HW: Watch 5.9 Video and fill in Notes
Friday 1/30	-5.9 Connecting a Function, Its First Derivative, and Its Second Derivative -5.9 In Class Activity -HW: Watch 5.12 Video and Fill In Notes
Monday 2/2	-5.12 Exploring Behaviors of Implicit Relations -5.12 Practice Worksheet
Tuesday 2/3	-Unit 5 Review Worksheet 1
Wednesday 2/4	-Unit 5 Review Worksheet 2

Thursday 2/5	-Unit 5 Test -All Unit 5 Assignments Due Today -HW: Watch 6.1 Video and Fill in Notes
-----------------	---