Unit 1_Limits and Continuity AP Calculus AB
Syllabus

DAY	TOPIC(S)	ASSIGNMENT
0	*Introduction *Growth Mindset *Mii Card	*Growth Mindset Quote *Join Khan Academy *Sign up for REMIND Texting *KA: Defining Limits and Using Limit Notation KA: Estimating Limits from Graphs
1	TEXT: Section 2.1 *Limits: Verbally Graphically	p. 66 – 67 ; 17*, 29*, 35*(sketch graph), 44-50, 57** *Use calculator **Draw graph (make sure to have visible points)
2	TEXT: Sections 2.1 *Limits: Numerically	WS: Finding Limits using Tables and Graphs
3	TEXT: Section 2.1 *Limit Properties *Limits Algebraically -Substitution -Use of Conjugates	Khan Academy: -Limits of Combined Functions_Sums and Differences -Limits of Combined Functions_Products and Quotients -Limits of Composite Functions -Limits by Direct Substitution -Limits of Piece-Wise Functions **Be familiar with: - Theorem 1: Properties of Limits (p. 61 – 62) - Theorem 2: Polynomial and Rational Functions (p. 63)

4	TEXT: 2.1 *More Limits Algebraically	*Paul's On Line: Lesson 2.5 Computing Limits #1-9 All **<u>Copy</u> each problem. Show work to support answer.**
5	TEXT: 2.1 Q-Quiz_Limits Graphically & Numerically *Limits around V asymptotes	WS: Limits Algebraically (omit #9, 10, 11)
6	TEXT: 2.1 *Limits with Absolute Values *Special Trig Limits *Sandwich Theorem	*WS: Limits 3 Do ODDS only *Khan Academy: -Squeeze Theorem Video
7	TEXT: Section 2.2 *Limits as $x \to \pm\infty$ -Properties *Sketching graphs	*Complete Limit WS 3 *p. 76-77; #21, 37, 41b, 42b, 55 - Theorem 5: Properties of Limits as $x \to \pm\infty$ (p. 71)

8	More Limits to Infinity	WS: Limits as $x \to \pm\infty$ [Bell 3 ONLY] Used as class work for Bell 7 on Day 9
9	TEXT: Section 2.3 *Continuity	Khan Academy: -Classify Discontinuities -Continuity at a point (Graphically) -Continuity at a Point (Algebraically) -Continuity over an Interval -Continuity and the Common Functions

10	*Continuity	*WS: Limits PW #1 *Study for Quiz on Limits
11	*Intermediate Value Theorem *Extreme Value Theorem *Limits-Graphs Match	*Take Home Quiz *WS: Limits PW #2
12	TEXT: Section 2.4 *Difference Quotient *Average Rate of Change *Rate of Change and Tangent Line *Slope of a Curve at a Point *Normal Line to a Curve	WS: Secant and Tangent Lines
13	*Review	Unit 1 Review WE_Unit 1
14	***TEST – UNIT 1**	