Calculus BC Schedule -- Unit 8
L'Hopital's Rule and Improper Integrals

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 20				*1-Feb*	*2-Feb*
Lesson				4.4 Indeterminate Forms & L'Hôpital's Rule	4.4 Indeterminate Forms & L'Hôpital's Rule
HMWK				**HW1**--p.299 #7,9, 27,29,34,37,43,45, 47, AP Practice #1,8	**HW2**--p.299 #35, 39,40,41,49,50,51, AP Practice #2,7

Week 21	*5-Feb*	*6-Feb*	*7-Feb*	*8-Feb*	*9-Feb*
Lesson	6.12 Improper Integrals	***LATE START*** 6.12 Improper Integrals	6.12 Improper Integrals & *Unit 8 Review*	**Unit 8 TEST**	Review of Geometric Series ***Black History Month Assembly?***
HMWK	**HW3**--p.523 #1,2, 15,17,18,22,72,79, AP Practice #3	**HW4**--p.523 #25, 29,31,39,80,AP Practice #5	**HW5**--p.523 #5,6,63,65,66,67,7 1 AP Practice #1 **STUDY for TEST!!!**	**No Additional Homework**	**No Additional Homework**

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Unit 8: L'Hôpital's Rule and Improper Integrals

LIM-4
L'Hospital's Rule allows us to determine the limits of some indeterminate forms.

LEARNING OBJECTIVE	ESSENTIAL KNOWLEDGE
LIM-4.A Determine limits of functions that result in indeterminate forms.	LIM-4.A.1 When the ratio of two functions tends to $\frac{0}{0}$ or $\frac{\infty}{\infty}$ in the limit, such forms are said to be indeterminate. **EXCLUSION STATEMENT** *There are many other indeterminate forms, such as $\infty - \infty$, for example, but these will not be assessed on either the AP Calculus AB or BC Exam. However, teachers may include these topics, if time permits.* LIM-4.A.2 Limits of the indeterminate forms $\frac{0}{0}$ or $\frac{\infty}{\infty}$ may be evaluated using L'Hospital's Rule.

LIM-6
The use of limits allows us to show that the areas of unbounded regions may be finite.

LEARNING OBJECTIVE	ESSENTIAL KNOWLEDGE
LIM-6.A Evaluate an improper integral or determine that the integral diverges. **BC ONLY**	LIM-6.A.1 An improper integral is an integral that has one or both limits infinite or has an integrand that is unbounded in the interval of integration. **BC ONLY** LIM-6.A.2 Improper integrals can be determined using limits of definite integrals. **BC ONLY**