Period:	
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Chapter 10 Syllabus – Advanced Limit Topics

- Do all of your homework problems....Make sure you TRY all of them!
- Check all of your answers.
- After you have checked your answers, ASK questions on the problems you can't figure out.
- BEFORE test get any additional help needed on concepts not mastered.

NP = Not Proficient P = Proficient M = Mastery

Section	Learning Target	Homework Questions	Ev	Self- Evaluation	
1-4	I can graph a relation given by parametric equations I can convert between parametric and Cartesian equations I can find the inverse of a relation given in parametric equations I can find the domain and range of a relation given in parametric equations	pg 34 #1-5. 7, 10, 14, 15, 20, 23- 28, 33, 34, 37-42 pg 535 #1-6	NP	Р	М
3-6	I can find the derivatives of parametrically defined curve I can find the second derivative of a parametrically defined curve I can write the equation of the tangent line to a parametrically defined curve I can find the lowest, highest, leftmost, and rightmost points of parametrically defined curve	pg 153 #41, 42, 45-48, 50, 74, 75 pg 535 #7-11, 16, 18-21, 23-26	NP	Р	М
7-4	I can find the length of smooth curve I can find the length of curve that has vertical tangent lines, corners, or cusps.	pg 416 #1, 2, 4, 6, 11-13, 23-25, 28, 32-37	NP	Р	М
10-1	I can find the length of A parametrically defined curve	pg 535 #27-34, 36, 43-50	NP	Р	М
10-2 day 1	I can find the magnitude and direction of a vector in component form I can find the x and y components of a vector in polar form I can perform basic vector operations I can find unit vectors	pg 545 #3, 5, 6, 8, 12, 13, 15, 17- 22, 25, 26			

Name: ____

Period: _____

10-2 day 2	I can model motion using a vector equation I can find the velocity, speed, acceleration, and direction vector of a particle whose motion is described by a vector equation I can find the displacement, total distance traveled, and position of a particle whose motion is described by a vector equation	pg 545 #27, 29-31, 35, 37, 38, 40, 43, 45-56		
10-3 day 1	I can convert between Cartesian and polar coordinates. I can graph relations defined by a polar equation I can convert polar equation into parametric equations and graph the curve I can find the slope of a polar curve I can write the equation of a tangent line to a polar curve	pg 557 #1, 4, 5, 8, 12, 13, 17, 19, 23, 26, 28, 32, 36, 39-42, 61, 65, 66		
10-3 day 2	I can find the area enclosed by a polar curve I can find the area between two polar curves	pg 558 #44-56 even, 57-60, 62- 64		
Review	 I can do AP Free Response Questions of the form: 1.) Position, velocity, speed, acceleration, displacement, total distance traveled of a particle whose motion is given by a parametric/vector equation 2.) I can find the area inside/between polar curves 	pg 560 #9-10, 12, 13, 21-26, 35- 41, 48, 49, 51-53		