

Name: \_\_\_\_\_

Period: \_\_\_\_\_

**Chapter 6 Syllabus –Techniques of Integration**

- 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	Self-Evaluation		
			NP	P	M
6-2 day 1	I can find an indefinite integral	pg 337 #1-12	NP	P	M
6-1 day 1	I can Solve a Differential Equation	pg 327 #1-6, 11-13, 15, 59, 60, 63	NP	P	M
6-1 day 2	I can graph and interpret a slope field for a given differential equation	pg 328 #29-40, 49, 50, 55, 57, 58, 61, 62, 64	NP	P	M
6-1 day 3	I can use Euler's Method to estimate the value of a function a given point	pg 327 #42, 44, 45, 47, 53, 54	NP	P	M
6-2 day 2	I can evaluate an integral using u-substitution.	pg 337 # 18, 20, 24, 25, 27, 28, 33, 35, 37, 38, 40, 41, 44, 47, 49, 53, 58, 65, 66, 71, 73, 74, 76	NP	P	M
6-3 day 1	I can evaluate an integral using integration by parts.	pg 346 #1-4, 9-12, 36, 39	NP	P	M
6-3 day 2	I can evaluate an integral using integration by parts tabular method.	pg 346 #5-8, 17-26, 29, 30, 37-41	NP	P	M
6-5 day 1	I can evaluate an integral using the decomposing into partial fractions technique.	pg 369 #1-4, 6, 7, 8-16 even, 19, 20, 43	NP	P	M
6-5 day 2	I can use model a population's growth using a logistic growth differential equation.  I can solve a logistic growth differential equation to find an equation that models the population at time t.  I can use the logistic growth equation to find out key information regarding the population growth.	pg 369 #23, 27, 33, 37, 39-42	NP	P	M

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Review	I can do AP Free Response Questions of the form:  1.) Logistic Growth  2.) Slope Field/Euler's Method, Differential Equation	pg 372 # 11-13, 15, 17-24, 32, 37-44, 50, 52, 59, 61, 67-69	NP	P	M
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