

Math 341 Homework # 4

Due Friday Wed. Oct 2 in class.

Section 2.5 3,10,16,20,21,23,25

Section 2.8 3,6,14,15

Problem #1 Find a function which is C^4 but not C^5 .

Problem #2 If a model for the formation of raindrops assumes that the rate of change of the volume is proportional to the surface area derive the equation for the volume as a function of time. Investigate the uniqueness or non-uniqueness of solutions. Does this have a physical implication? Think.