

MATH 142 – HOMEWORK PROJECT 6 - DUE MONDAY, APRIL 12

Assignment: Work out in detail 2 problems from problems #1-5 on Quiz 5. For each problem, this involves

1. A drawing with labels of the situation and of how it is broken into pieces
2. A careful drawing of a piece with labels and values
3. Calculation of the value(s) for the given piece
4. Expression of a formula for the approximation of the total value for the problem
5. Relation between the approximation and the desired value and an integral
6. Evaluation of the integral with appropriate units
7. (Bonus) Develop a simpler problem where you can get an answer without integration to estimate the value you did compute.

Neatness and orderliness will count. Any educated person should be able to read this, follow your logic and believe the answer. Do not just do the parts 1-6 above without some logical connection. You do not have to use MATLAB with this project.