## Intro Differential Equations, Math 2280

Web site: http://www.math.utah.edu/~gustafso/s2019/2280/index2280S2019.html

## First Exercise

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Problem 1.2-2
    Find a function y=f(x) which satisfies the differential equation
    dy/dx = (x-2)^2 and the initial condition y(2)=1.
Book's Answer: y=1+(1/3)(x-2)^3
Your Job
        Please write a one or two page solution.
        Submit a COPY by Friday afternoon, Week 1, to JWB 113.
        It will be returned on Wednesday of Week 2, with comments, no grade.
        The final draft of 1.2-2 will be graded with the Week 3 homework.
Sample Solved Problem
    The link below is handwritten work by Gustafson, Tyson Black and Jennifer
Lahti. Try to do as well as Jennifer (best exposition in this PDF), but write your
own draft, using your own style. Tyson's work for 1.2-1 shows the range of what is
acceptable.
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Read Jennifer Lahti's draft of Exercise 1.2-2, which is on page 4 of [1]. Compare to Tyson Black's solution, page 2. For more Exercises 1.2 by Jennifer Lahti, read Jennifer Lahti Ex 1.2-5,8,10 in [2]. Read about Black and Lahti's ideas for writing reports HERE in [3].
[1] http://www.math.utah.edu/\~gustafso/s2019/2280/lectureslides/2250Week1exercises-tysonBlack-JenniferLahti-1.2-1+2.pdf
[2] http://www.math.utah.edu/\~gustafso/s2019/2280/lectureslides/2250Week1exercises-JenniferLahti-1.2-5+8+10.pdf
[3] http://www.math.utah.edu/\~gustafso/s2019/2280/syllabus/2280format.pdf

