

Homework 2

Math 230

due 4:00pm on Wednesday, September 2

Write your solutions to the following problems clearly and neatly. Make sure to explain your reasoning and provide mathematical details that support your answers. For a few tips on writing solutions, see [this helpful guide for mathematical writing](#).

You may write or type your solutions electronically, or write them on paper and scan or photograph them. Upload a single file containing your solutions to the [Homework 2](#) assignment on Moodle.

Book Problems

- Section 1.2 #33 (page 34)

- Section 1.3 #13, 14, 16, 17, 18, 19 (pages 49–51)

Note: You do not need to use HPGSolver to plot slope fields. You may use your favorite technology instead.

- Section 1.4 #1, 3, 5, 6, 11 (pages 61–62)

Note: You may use your favorite technology to compute Euler's method. In your solutions, you should include tables and sketches as instructed in each problem.

To do a “qualitative analysis” for #11, you should consider plotting a slope field, finding equilibrium solutions, or considering the long-term behavior of solutions.

- Section 1.5 #2, 3 (page 71)