Instructions: Please write your solution to each problem on a separate page, and please include the full problem statement at the top of the page. All solutions must be written in legible handwriting or typed (in each case, the text should be of a reasonable size).

Your solutions to all problems should be written in complete sentences, with proper grammatical structure.

In all cases where external resources are consulted or used, proper citation must be given. In addition, you must provide information on collaboration with your submission: if you worked with others, or consulted anyone aside from the course staff, in preparing the solutions, their names should be listed; if you didn’t work with anyone, please indicate this.

Your entire problem set must be submitted through the Stellar course site. If your solutions are not typed, you must scan your written solutions and submit the digital copy. When submitting problems through LaTex, the LaTex source file (.tex) must be included in the submission.

- Write complete solutions to the following problems from the do Carmo, Differential Geometry of Curves and Surfaces:
  1. Section 2.2, Page 66, Problem 6
  2. Section 2.2, Page 66, Problem 10
  3. Section 2.2, Page 68, Problem 17
  4. Section 2.3, Page 80, Problem 6
  5. Section 2.3, Page 80, Problem 7
  6. Section 2.4, Page 90, Problem 17
  7. Section 2.4, Page 90, Problem 18