

Math 20E Requirement Fulfillment Exam Suggested Problems

Here are some suggested review problems for the Math 20E Requirement Fulfillment Exam taken from *Vector Calculus, 5th Edition*, by Jerrold E. Marsden and Anthony J. Tromba. Note that you should *not* expect the problems on the actual exam to be similar to those listed here. This list is intended to be representative rather than exhaustive, and may not include examples of all possible problems that could be encountered on the exam.

- **Section 2.4.** Problems: 11, 17
- **Section 2.6.** Problems: 1, 5(c), 9
- **Section 3.1.** Problems: 9
- **Section 3.3.** Problems: 11
- **Section 4.2.** Problems: 9
- **Section 4.4.** Problems: 3, 7, 15, 25
- **Section 5.2.** Problems: 3
- **Section 5.3.** Problems: 1
- **Section 5.4.** Problems: 1
- **Section 5.5.** Problems: 9, 11
- **Section 6.2.** Problems: 1, 3, 5, 13, 21
- **Section 7.1.** Problems: 3
- **Section 7.2.** Problems: 1, 15
- **Section 7.3.** Problems: 3, 11
- **Section 7.4.** Problems: 1, 13, 15
- **Section 7.5.** Problems: 7
- **Section 7.6.** Problems: 5, 9
- **Section 8.1.** Problems: 3, 5, 13
- **Section 8.2.** Problems: 3, 5, 7, 9, 11
- **Section 8.3.** Problems: 3, 7, 9, 13, 15
- **Section 8.4.** Problems: 1, 3, 5, 7, 9