

SUGGESTED PRACTICE PROBLEMS FOR MATH 143 (CALCULUS III)

Spring 2023

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Textbook:

- *Calculus (Eighth Edition)*, Authors: James Stewart, Publisher: Cengage Learning, 2016 (ISBN: 978-1-285-74062-1)

From Chapter 10:

- Section 10.1: problems 2-12 (even); 28-72 (even).
- Section 10.2: problems 8-18 (even); 60-62; 64, 65, 66-72 (even); 73-78.
- Section 10.3: problems 2-30 (even); 34, 38.
- Section 10.4: problems 2-10 (even); 12-16; 18, 19; 20-26 (even); 27-32; 34-42.
- Section 10.5: problems 2-10 (even); 12-14; 16-20 (even); 22-24; 26-30; 32-34; 36-40; 55, 58.
- Section 10.6: problems 2-10 (even); 12-14; 16-20 (even); 22-24; 26-28; 36.
- Section 10.7: problems 2-20 (even); 21-22, 24, 26-28, 30.
- Section 10.8: problems 2-16 (even); 19-26; 28, 30, 32-36.
- Section 10.9: problems 7, 10, 17-30; 38, 39.
- Section 10.10: problems 17, 18, 21, 22; 44, 46.
- Section “Practice Exercises”: 1-18; 25-34; 37, 38; 41-48; 57, 58, 64, 68.

From Chapter 11:

- Section 11.1: problems 2-16 (even).
- Section 11.2: problems 2-4; 6-8; 10, 14; 22, 29, 30;
- Section 11.3: problems 2-12 (even); 14-18; 28-36 (even); 54-60 (even).
- Section 11.4: problems 2-8 (even); 9-16; 18-22 (even).
- Section 11.5: problems 4, 9, 10.
- Section “Practice Exercises”: 4-6; 9-10; 16, 17, 19; 33-36; 39-46.

From Chapter 12:

- Section 12.1: problems 1-4; 6-12 (even); 13-16; 17, 20, 21; 26, 27, 32; 48-50; 56, 57.
- Section 12.2: problems 2-3, 4, 6, 8; 9, 12; 18-20; 22, 24; 26-30.

- Section 12.3: Parts (a)-(d) 2-8 (even), 8, 10, 12.
- Section 12.4: problems 1-8 (even); 16-18; 19-22; 24; 36-38; 42-44, 47.
- Section 12.5: problems 6, 8, 9; 25, 27-31; 33, 37-39; 43, 44; 56-60.
- Section “Practice Exercises”: problems 1-3; 13-15; 19; 29, 30; 33-38; 41-44.

From **Chapter 13**:

- Section 13.1: problems 10-14 (even); 16-18; 20, 22.
- Section 13.2: problems 2-16 (even).
- Section 13.3: problems 2-8 (even).
- Section 13.4: problems 2, 4, 5; 10-16 (even).
- Section 13.5: problems 2-8 (even).
- Section “Practice Exercises”: 15, 16; 17-20 (not the part involving torsion, i.e., τ !); 21, 22, 24-28.