

Practice Problems

For the exam, please look also look at the workshop problems and the problems done on board in class.

- 6.1 (Area between Two Curves)(review) 9, 12, 15, 17, 19, 29
- 6.2 (Volumes, Average Value) 1, 2, 3, 5, 6, 9, 11, 13, 14, 42, 45, 46
- 6.3 (Volumes of Solids of Revolution) 16, 17, 19, 23, 29, 30, 32, 35, 36, 37, **25, 27, 31**
- 6.4 (Method of Shells) **11**, 12, 13, 19, 20, 23, 26
- 7.1 (Numerical Integration) 7, 8, 13, 14, 36, 37, **1 - 21 odd, 41**
- 7.2 (Integration by Parts) 9, 10, 23, 24, 53, 72, **7 - 27 odd, 35, 37**
- 7.3 (Trigonometric Integrals) 3, 4, 14, 15, 40, 41, **21, 23, 25, 27, 21, 33, 53**
- 7.4 (Trigonometric Substitutions) 13, 14, 23, 28, 35, 36, **17, 19, 21, 25, 29**
- 7.6 (Partial Fractions) 9, 10, 17, 18, 33, 36, **9 - 33 odd, 37, 39**
- 7.7 (Improper Integrals) 14, 19, 29, 32, 43, 44
- 8.1 (Arc Length & Surface Area) 7, 8, 9, 10, 38, 39
- 8.4 (Taylor Polynomials) 7, 8, 17, 18, 29, 30
- 9.1 (Solving Differential Equations) 13, 14, 29, 30, 35, 36
- 9.2 (Models) 3, 4, 8, 9, 15, 16
- 9.3 (Graphical Methods) 2, 9
- 10.1 (Infinite Sequences) 21, 22, 30, 39, 43, 46
- 10.2 (Infinite Series) 9, 10, 15, 16, 28, 29
- 10.3 (Series with Positive terms) 9, 10, 15, 16, 38, 39
- 10.4 (Absolute and Conditional Convergence) 5, 6, 21, 22, 23, 26
- 10.5 (Ratio Test, Root Test) 6, 11, 12, 13, 18, 23
- 10.6 (Power Series) 6, 7, 19, 20, 31, 32
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- 10.7 (More Taylor Series) 21, 22, 24, 25, 26, 41
- 11.1 (Parametric Equationss) 7, 8, 19, 20, 21, 22
- 11.2 (Arc Length and Speed) 3, 4, 13, 14, 20, 21
- 11.3 (Polar Coordinates) 3, 4, 7, 8, 14, 15
- 11.4 (Area and Arc Length in Polar Coordinates) 7, 8, 11, 12, 13, 14