

## Practice Problems

**For the exam, please look also look at the workshop problems and the problems done on board in class. You may also do the odd problems that pertain to our sections in the chapter reviews given at the end of each chapter.**

- 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, **5 - 45 odd, 49 - 53 odd**
- 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, **3 - 31 odd**
- 9.2 (Models) 3, 4, 8, 9, 15, 16, **1 - 19 odd**
- 9.3 (Graphical Methods) 2, 9, **1 - 9 odd**
- 10.1 (Infinite Sequences) 21, 22, 30, 39, 43, 46, **11, 12, 13 - 65 odd**
- 10.2 (Infinite Series) 9, 10, 15, 16, 28, 29, **1, 11 - 33 odd**
- 10.3 (Series with Positive terms) 9, 10, 15, 16, 38, 39, **1 - 75 odd**
- 10.4 (Absolute and Conditional Convergence) 5, 6, 21, 22, 23, 26, **1 - 29 odd**
- 10.5 (Ratio Test, Root Test) 6, 11, 12, 13, 18, 23, **1 - 51 odd**
- 10.6 (Power Series) 6, 7, 19, 20, 31, 32, **1 - 37 odd**
- 10.7 (Taylor Series) 3, 4, 11, 12, 19, 20, **1 - 45 odd**
- 10.7 (More Taylor Series) 21, 22, 24, 25, 26, 41
- 11.1 (Parametric Equationss) 7, 8, 19, 20, 21, 22, **1 - 41 odd 43 - 57 odd**
- 11.2 (Arc Length and Speed) 3, 4, 13, 14, 20, 21, **1 - 21 odd**
- 11.3 (Polar Coordinates) 3, 4, 7, 8, 12, 13, 14, 15, 17, 25, **1 - 25 odd**
- 11.4 (Area and Arc Length in Polar Coordinates) 7, 8, 11, 12, 13, 14, **1 - 25 odd**