

## Math 152 — Homework Assignments

Section	Exercises	Section	Exercises	Section	Formal HW	Date due:
4-4	1-61 odd	6-3	3-43 odd	8-2	1-29 odd	Exercises
5-1	1-25 odd	6-4	1-19 odd	9-1	1-13 odd	1-13 odd
5-2	1-61 odd	7-1	1-61 odd	9-3	1-33 odd	1-33 odd
5-3	3-65 odd	7-2	1-63 odd	9-4	1-21 odd	1-21 odd
5-4	1-61 odd	7-3	1-37 odd			
5-5	1-75 odd	7-4	1-61 odd			
5-6	1-9 odd	7-7	1-39 odd			
6-1	1-45 odd	7-8	3-71 odd			
6-2	1-61 odd	8-1	1-37 odd			

## Math 152 — List of Topics

Indeterminate Forms and L'Hospital's Rule;  
 Areas and Distances;  
 The Definite Integral;  
 The Fundamental Theorem of Calculus;  
 Indefinite Integrals and the Net Change Theorem;  
 The Substitution Rule;  
 The Natural Logarithm as an Integral;  
 Areas between Curves;  
 Volumes;  
 Cylindrical Shells;  
 Work;

Integration by Parts;  
 Trigonometric Integrals;  
 Trigonometric Substitution;  
 Rational Functions and Partial Fractions;  
 Approximate Integration;  
 Improper Integrals;  
 Arc Length;  
 Area of a Surface of Revolution;  
 Modeling with Differential Equations;  
 Separable Equations;  
 Exponential Growth and Decay.