

Outline and review problems for Midterm I

MATH 175, Fall 2014

Briggs & Cochran

1. Find integrals using substitution.
5.5 #19, 37
7.2 #65, 67
p.312 #19
p. 439 #51
2. Find inverse trig. values using circles/triangles.
7.5 #11, 13, 15, 25, 27, 29, 31
3. Find expressions for inverse trig. values using circles/triangles.
7.5 #17, 19, 33, 35, 39
4. Find derivatives of expressions containing inverse trig functions.
7.5 # 41, 43, 45, 47, 51
5. Integration of derivatives of inverse trig functions
7.5 #65, 69, 71, 83, 85
6. Use l'Hôpital's rule to find limits of indeterminate forms.
4.7 #9, 15, 25, 27, 31, 33
p.249 #29
7. Know how to use $e^{\ln f(x)}$ together with l'Hôpital's to find limits.
7.6 # 7, 9, 11, 13, 15, 33
8. Integration by parts
8.1 #7, 11, 13, 15, 19, 23, 25, 51, 55
9. Find integrals containing powers of sin/cos or tan/sec
8.2 #9, 11, 13, 15, 17, 19, 21, 23, 25, 29, 41