### 18.014 UNIT V: ELEMENTARY FUNCTIONS; INTEGRATION TECHNIQUES

Thursday, Oct. 26.

Lecture: Integration by substitution and by parts.
Read: 5.6-5.9 (skip Theorem 5.5, p. 219).

Do: p. 216: 2, 6, 8, 12, 14; p. 220: 2, 6, 8, 11a.

Friday, Oct. 27.

Lecture: Logarithms and exponentials.

Read: Notes M; the integration examples on pp. 234-235 and p. 247.

Do: M.11: 1,2; p. 236: 5, 7, 11, 16, 17.; p. $248: 3,5,7,11,13,21,25,28,32$.

Tuesday, Oct. 31.

Lecture: Inverse trig functions, trig substitution.

Read: 6.21, p. 266, N.1-N.3.

Do: p. $256: 12,17,18,19,30,31,33,35 ;$ p. N.5: $1,2,3,4$.
Thursday, Nov. 2.

Lecture: Integration techniques.
Read: 6.23, N.4.

Do: p. 236: 18, 22, 24; p. 249: 17, 18; p. 267: 7, 11, 19, 20, 33, 34, 35. (Don't bother finding $A, B, C, \ldots$ in the partial fractions decompositions.)

Hand in Friday, November 3 in lecture ( 7 points/problem).

1. p. L.6: 5.
2. p. M.4: 1 .
3. p. N.5: 6.

Date: Fall 2000.

