



Fri., Jan. 26

Sec. 4.9 pp. 327-329
28, 31, 33, 36, 41, 42, 73, 75,
a & b at right

Sec. 5.5 pp. 391-393
16, 17, 19, 20, 21, 27

Tues., Jan. 30

Sec. 5.5 p. 391
33, 34, 37, 38 (See back for all answers.)

Handout p. 372
13, 24, 31, 33, 35, 36, 37, 38, 41, 42

Thurs., Feb. 1

Integration of Exponential, Logarithmic &
Inverse Trig Functions Handout

Mon., Feb. 5

Sec. 5.1 p. 343
23, 26, 27

Sec. 5.2 p. 359
33-42

Sec. 5.3 p. 374
42, 43, 45, 61, 63, 65, 68

Sec. 5.5 p. 391
40, 43, 45, 49, 51

Wed., Feb. 7

(Optional assignment; will be tested)

Sec. 5.4 pp. 381-382
22, 25, 35, 38

Sec. 7.1 pp. 520-521
Evaluate using CAS: 7, 35

Review Integration

Journal Due

Fri., Feb. 9

Integration Test

**Math Matters
Due Next Class**

Sec. 4.9 pp. 327-329

28. $12m^5 - \frac{50}{3}m^3 + C$

36. $2t^6 + \frac{1}{t} + C$

42. $\sec\theta - \tan\theta + C$

a. $x - \csc x + C$

b. $2\ln|x| + 3e^x + C$

Sec. 5.1 p. 343

26. Left ≈ 3.840 ; Right ≈ 4.279

Sec. 5.2 p. 359

34. 11

36. 22

38. -1

40. $-2\pi - 1$

42. a) -24 b) 24 c) 36 d) -9

Sec. 5.3 p. 374

42. $\pi - 2$

68. $-2xe^x + 8xe^{2x}$ OR $2xe^x(4e^x - 1)$

Sec. 5.4 pp. 381-382

22. $\frac{7}{3}$

38.

$f_{ave} = \frac{1}{2}$; $x \approx 0.690107$ and $x \approx 2.45149$

Sec. 5.5 p. 391

16. $\frac{2}{3}\sqrt{(3x^2 + x)^3} + C$

20. $\frac{(\sqrt{x}+1)^5}{5} + C$

33. $\frac{2}{3}(x-4)^{\frac{3}{2}} + 8(x-4)^{\frac{1}{2}} + C$

34. $\frac{-1}{y+1} + \frac{1}{(y+1)^2} - \frac{1}{3(y+1)^3} + C$

37. $\frac{3}{28}(2x+1)^{\frac{7}{3}} - \frac{3}{16}(2x+1)^{\frac{4}{3}} + C$

38. $\frac{2(3x+2)^{\frac{5}{2}}}{45} + \frac{2(3x+2)^{\frac{3}{2}}}{27} + C$

40. $\frac{4}{5}$