



Fri., Jan. 20

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

$$\begin{aligned} \text{a) } & \int \csc x (\sin x + \cot x) dx \\ \text{b) } & \int \left( \frac{2}{x} + 3e^x \right) dx \end{aligned}$$

Tues., Jan. 24

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., Jan. 26

Integration of Exponential, Logarithmic &  
Inverse Trig Functions Handout

Mon., Jan. 30

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. 1

(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. 3

*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  $\approx 3.840$ ; Right  $\approx 4.279$

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.  $\frac{4}{5}$