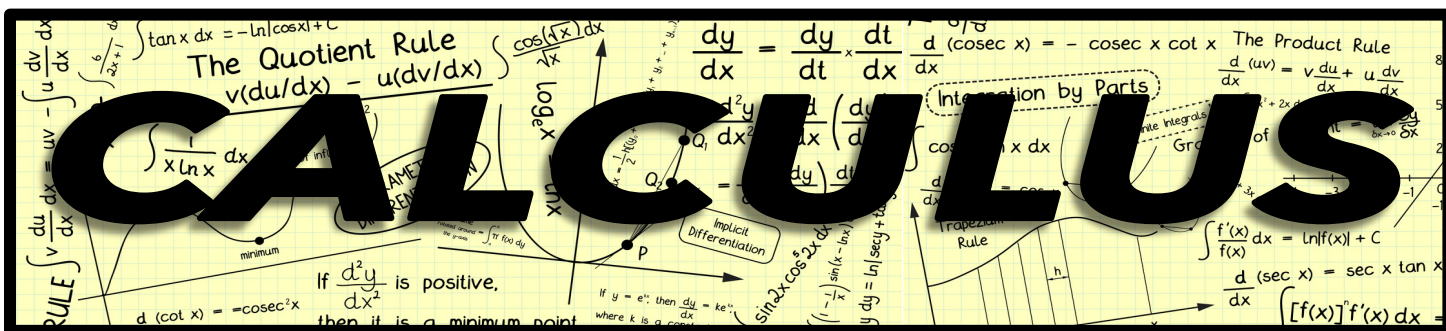




Fri., Jan. 24

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

$$a) \int \csc x (\sin x + \cot x) dx$$

$$b) \int \left(\frac{2}{x} + 3e^x \right) dx$$

Tues., Jan. 28

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. 30

Integration of Exponential, Logarithmic &
Inverse Trig Functions Handout

Mon., Feb. 3

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. 5

(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. 7

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. $\frac{4}{5}$