

## Integration Practice - Mat 210

By Scott Sargent (email: [sargent@imap2.asu.edu](mailto:sargent@imap2.asu.edu) if you see a mistake)

I. Basic antiderivatives. Using the properties from your text, determine the general antiderivative below.

a)  $\int 2 \, dx$

b)  $\int (x^2 - 1) \, dx$

c)  $\int (4x^2 + 2x + 7) \, dx$

d)  $\int \left( \sqrt{x} + \frac{1}{x} \right) \, dx$

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

f)  $\int 4.782x^{1.545} + 3.713x^{0.782} \, dx$

g)  $\int 35(2)^x \, dx$

h)  $\int 6.782(3.335)^{2x} \, dx$  (Hint: rewrite the base)

i)  $\int 26.86e^{0.65x} \, dx$  (Same hint as above)

**Answers:**

a)  $F(x) = 2x + C$

b)  $F(x) = \frac{1}{3}x^3 - x + C$

c)  $F(x) = \frac{4}{3}x^3 + x^2 + 7x + C$

d)  $F(x) = \frac{2}{3}x^{3/2} + \ln x + C$

e)  $F(x) = 2 \ln x - \frac{1}{x^2} + C$

f)  $F(x) = 1.878x^{2.545} + 2.107x^{1.782} + C$

g)  $F(x) = 50.49(2)^x + C$

h)  $F(x) = 2.815(11.122)^x + C$

i)  $F(x) = 41.323(1.916)^x + C$

II. Initial conditions. For each function below, find the particular antiderivative that satisfies the given initial condition.

a)  $\int 4x + 7 \, dx; \quad F(2) = 3$

b)  $\int \left( \frac{1}{x} + \frac{1}{x^2} \right) \, dx; \quad F(1) = 5$

c) The velocity of a particle is governed by the equation  $v(t) = 2t^2 + t$ , where  $t$  is in minutes and  $v(t)$  is in feet/minute. Find the distance function  $D(t)$  for this particle given that after 5 minutes, the particle had traveled 30 feet.

**Answers:**

a)  $F(x) = 2x^2 + 7x - 18$

b)  $F(x) = \ln x - \frac{1}{x} + 6$

c)  $D(t) = \frac{2}{3}t^3 + \frac{1}{2}t^2 - 65.833$

III. Definite Integrals. Evaluate the following definite integrals.

a)  $\int_0^2 (5x - 6) \, dx$

b)  $\int_{-1}^3 (4x^2 + x - 1) \, dx$

c)  $\int_1^9 \sqrt{x} \, dx$

d)  $\int_1^4 \left( \frac{3}{x} + x \right) \, dx$

e)  $\int_{\ln 2.4}^{\ln 5} e^x \, dx$

# The Brief Calculus

**Ron Larson**



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