

## Integration Practice - Mat 210

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

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

- $\int 2 \, dx$
- $\int (x^2 - 1) \, dx$
- $\int (4x^2 + 2x + 7) \, dx$
- $\int (\sqrt{x} + \frac{1}{x}) \, dx$
- $\int \left( \frac{2}{x} + \frac{2}{x^2} \right) \, dx$
- $\int 4.782x^{1.345} + 3.713x^{0.762} \, dx$
- $\int 35(2)^x \, dx$
- $\int 6.782(3.335)^{2x} \, dx$  (Hint: rewrite the base)
- $\int 26.86e^{0.65x} \, dx$  (Same hint as above)

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

- $\int 4x + 7 \, dx$ ;  $F(2) = 3$
- $\int \left( \frac{1}{x} + \frac{1}{x^2} \right) \, dx$ ;  $F(1) = 5$
- 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:**

- $F(x) = 2x^2 + 7x + C$
- $F(x) = \frac{1}{2}x^3 - x + C$
- $F(x) = \frac{4}{3}x^3 + x^2 + 7x + C$
- $F(x) = \frac{2}{3}x^{3/2} + \ln x + C$
- $F(x) = 2 \ln x - \frac{1}{x} + C$
- $F(x) = 1.878x^{2.345} + 2.107x^{1.762} + C$
- $F(x) = 50.49(2)^x + C$
- $F(x) = 2.815(11.122)^x + C$
- $F(x) = 41.323(1.916)^x + C$

**III. Definite Integrals.** Evaluate the following definite integrals.

- $\int_0^7 (5x - 6) \, dx$
- $\int_{-1}^2 (4x^2 + x - 1) \, dx$
- $\int_4^9 \sqrt{x} \, dx$
- $\int_1^4 \left( \frac{3}{x} + x \right) \, dx$
- $\int_{-2.4}^{2.7} e^x \, dx$

**Answers:**

- $F(x) = 2x^2 + C$
- $F(x) = \frac{1}{2}x^3 - x + C$
- $F(x) = \frac{4}{3}x^3 + x^2 + 7x + C$
- $F(x) = \frac{2}{3}x^{3/2} + \ln x + C$
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**Ron Larson**

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