CHAPTER 7
PRINCIPLES OF INTEGRAL EVALUATION

7.1 AN OVERVIEW OF INTEGRATION METHODS
Methods for Approaching Integration Problems
A Review of Familiar Integration Formulas

References

Table 5.2.1 Integration Formulas (page 325, Howard Anton, 10th edition)

$$\frac{d}{dx}(c) = 0 \qquad \frac{d}{dx}(x) = 1 \qquad \int dx = \int 1\, dx = x + c$$

$$\frac{d}{dx}(x^n) = nx^{n-1} \qquad \int x^n dx = \frac{x^{n+1}}{n+1} + c, \quad n \neq -1; \quad \int \frac{1}{x^n} dx = \frac{-1}{(n-1)x^{n-1}} + c, \quad n \neq 1$$

$$\frac{d}{dx}(\sqrt{x}) = \frac{1}{2\sqrt{x}} \qquad \int \frac{1}{\sqrt{x}} dx = 2\sqrt{x} + c$$

$$\frac{d}{dx}(\ln x) = \frac{1}{x} \qquad \frac{d}{dx}(\log_a x) = \frac{1}{x}\log_a e \qquad \int \frac{1}{x} dx = \ln|x| + c$$

$$\frac{d}{dx}(e^x) = e^x \qquad \int e^x dx = e^x + c$$

$$\frac{d}{dx}(e^{mx}) = me^{mx} \qquad \int e^{mx} dx = \frac{e^{mx}}{m} + c$$

$$\frac{d}{dx}(a^x) = a^x \ln a \qquad \int a^x dx = \frac{a^x}{\ln a} + c$$

$$\frac{d}{dx}(\sin x) = \cos x \qquad \int \cos x\, dx = \sin x + c$$

$$\frac{d}{dx}(\sin mx) = m\cos mx \qquad \int \sin mx\, dx = -\frac{1}{m}\cos mx + c$$

$$\frac{d}{dx}(\cos x) = -\sin x \qquad \int \sin x\, dx = -\cos x + c$$

$$\frac{d}{dx}(\cos mx) = -m\sin mx \qquad \int \cos mx\, dx = \frac{1}{m}\sin mx + c$$

$$\frac{d}{dx}(\tan x) = \sec^2 x \qquad \int \sec^2 x\, dx = \tan x + c$$

$$\frac{d}{dx}(\cot x) = -\csc^2 x \qquad \int \csc^2 x\, dx = -\cot x + c$$

$$\frac{d}{dx}(\sec x) = \sec x \tan x \qquad \int \sec x \tan x\, dx = \sec x + c$$

$$\frac{d}{dx}(\csc x) = -\csc x \cot x \qquad \int \csc x \cot x\, dx = -\csc x + c$$

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