#### Integration Formulas

1. 
$$\int a \, dx = ax + C$$

2. 
$$\int x^n dx = \frac{x^{n+1}}{n+1} + C, \quad n \neq -1$$

$$3. \int \frac{1}{x} dx = \ln |x| + C$$

$$4. \quad \int e^x dx = e^x + C$$

5. 
$$\int a^{x} dx = \frac{a^{x}}{\ln a} + C$$

6. 
$$\int \ln x \, dx = x \ln x - x + C$$

7. 
$$\int \sin x \, dx = -\cos x + C$$

8. 
$$\int \cos x \, dx = \sin x + C$$

9. 
$$\int \tan x \, dx = \ln|\sec x| + C \text{ or } -\ln|\cos x| + C$$

10. 
$$\int \cot x \, dx = \ln |\sin x| + C$$

11. 
$$\int \sec x \, dx = \ln|\sec x + \tan x| + C$$

12. 
$$\int \csc x \, dx = -\ln|\csc x + \cot x| + C$$

13. 
$$\int \sec^2 x \, dx = \tan x + C$$

14. 
$$\int \sec x \tan x \, dx = \sec x + C$$

15. 
$$\int \csc^2 x \, dx = -\cot x + C$$

16. 
$$\int \csc x \cot x \, dx = -\csc x + C$$

17. 
$$\int \tan^2 x \, dx = \tan x - x + C$$

18. 
$$\int \frac{dx}{a^2 + x^2} = \frac{1}{a} Arc \tan \left( \frac{x}{a} \right) + C$$

19. 
$$\int \frac{dx}{\sqrt{a^2 - x^2}} = Arc \sin\left(\frac{x}{a}\right) + C$$

20. 
$$\int \frac{dx}{x\sqrt{x^2 - a^2}} = \frac{1}{a} \operatorname{Arc} \sec \frac{|x|}{a} + C = \frac{1}{a} \operatorname{Arc} \cos \left| \frac{a}{x} \right| + C$$

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