

Antiderivatives of Trigonometric Functions

$$1. \int \sin x dx = -\cos x + C$$

$$2. \int \cos x dx = \sin x + C$$

$$3. \int \sec^2 x dx = \tan x + C$$

$$4. \int \csc^2 x dx = -\cot x + C$$

$$5. \int \sec x \tan x dx = \sec x + C$$

$$6. \int \csc x \cot x dx = -\csc x + C$$

$$7. \int \tan x dx = -\ln |\cos x| + C$$

$$8. \int \cot x dx = \ln |\sin x| + C$$

$$9. \int \sec x dx = \ln |\sec x + \tan x| + C$$

$$10. \int \csc x dx = \ln |\csc x - \cot x| + C$$

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Page 2 of 2