

Integrating Trigonometric Functions ... Set 1

Integration - Trigonometric Functions

Evaluate each indefinite integral.

1) $\int \cos x \, dx$

2) $\int -5\sin x \, dx$

3) $\int 3 \cdot \sec^2 x \, dx$

4) $\int -3\csc x \cdot \cot x \, dx$

5) $\int \frac{2}{\sec x} \, dx$

6) $\int \frac{5}{\csc x} \, dx$

7) $\int -4\tan x \, dx$

8) $\int -\cot x \, dx$

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Answers

Integration - Trigonometric Functions

Evaluate each indefinite integral.

$$1) \int \cos x \, dx$$

$$\sin x + C$$

$$2) \int -5\sin x \, dx$$

$$5\cos x + C$$

$$3) \int 3 \cdot \sec^2 x \, dx$$

$$3\tan x + C$$

$$4) \int -3\csc x \cdot \cot x \, dx$$

$$3\csc x + C$$

$$5) \int \frac{2}{\sec x} \, dx$$

$$2\sin x + C$$

$$6) \int \frac{5}{\csc x} \, dx$$

$$-5\cos x + C$$

$$7) \int -4\tan x \, dx$$

$$-4 \ln |\sec x| + C$$

$$8) \int -\cot x \, dx$$

$$-\ln |\sin x| + C$$