Name : _____ Score : _____

Teacher : _____ Date : _____

Trigonometric Integration

Find each indefinite integral.

1) $\int (-9\cos -3x)dx$

2) $\int \left(\frac{10}{\sec 2x}\right)dx$

3) $\int \left(\frac{1}{\sec x}\right)dx$

4) $\int \left(\frac{8}{\csc x}\right)dx$

5) $\int (-5\sin 4x)dx$

6) $\int (3\tan x)dx$

7) $\int (-\sin x)dx$

8) $\int \left(\frac{5}{\csc 3x}\right)dx$

9) $\int (8\tan -x)dx$

10) $\int (-6\cos x)dx$

11) $\int (\cot -3x)dx$

12) $\int (\cot x)dx$

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Trigonometric Integration

Find each indefinite integral.

1) $\int (-9\cos -3x)dx$

$3\sin -3x + C$

2) $\int \left(\frac{10}{\sec 2x}\right)dx$

$5\sin 2x + C$

3) $\int \left(\frac{1}{\sec x}\right)dx$

$\sin x + C$

4) $\int \left(\frac{8}{\csc x}\right)dx$

$-8\cos x + C$

5) $\int (-5\sin 4x)dx$

$\frac{5}{4}\cos 4x + C$

6) $\int (3\tan x)dx$

$-3\ln|\cos x| + C$

7) $\int (-\sin x)dx$

$\cos x + C$

8) $\int \left(\frac{5}{\csc 3x}\right)dx$

$\frac{-5}{3}\cos 3x + C$

9) $\int (8\tan -x)dx$

$8\ln|\cos -x| + C$

10) $\int (-6\cos x)dx$

$-6\sin x + C$

11) $\int (\cot -3x)dx$

$\frac{-1}{3}\ln|\sin -3x| + C$

12) $\int (\cot x)dx$

$\ln|\sin x| + C$