Name : _____ Score : _____

Teacher : _____ Date : _____

Trigonometric Integration

Find each indefinite integral.

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

2) $\int (3\cot x)dx$

3) $\int (-10\csc^2 5x)dx$

4) $\int (5\cos -2x)dx$

5) $\int (-7\tan -4x)dx$

6) $\int \left(\frac{1}{\cos x \bullet \sin x}\right)dx$

7) $\int \left(\frac{1}{\sec 2x}\right)dx$

8) $\int (8\csc^2 x)dx$

9) $\int (\sec^2 x)dx$

10) $\int \left(\frac{-5}{\cos^2 -5x}\right)dx$

11) $\int (-4\cos x)dx$

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

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Trigonometric Integration

Find each indefinite integral.

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

$-6\ln|\cos x| + C$

2) $\int (3\cot x)dx$

$3\ln|\sin x| + C$

3) $\int (-10\csc^2 5x)dx$

$2\cot 5x + C$

4) $\int (5\cos -2x)dx$

$\frac{-5}{2}\sin -2x + C$

5) $\int (-7\tan -4x)dx$

$\frac{-7}{4}\ln|\cos -4x| + C$

6) $\int \left(\frac{1}{\cos x \bullet \sin x}\right)dx$

$\ln|\tan x| + C$

7) $\int \left(\frac{1}{\sec 2x}\right)dx$

$\frac{1}{2}\sin 2x + C$

8) $\int (8\csc^2 x)dx$

$-8\cot x + C$

9) $\int (\sec^2 x)dx$

$\tan x + C$

10) $\int \left(\frac{-5}{\cos^2 -5x}\right)dx$

$\tan -5x + C$

11) $\int (-4\cos x)dx$

$-4\sin x + C$

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

$-2\cos 4x + C$