Name : _____ Score : _____

Teacher : _____ Date : _____

Trigonometric Integration

Find each indefinite integral.

1) $\int \left(\frac{9}{\cos^2 2x}\right)dx$

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

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

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

5) $\int \left(\frac{5}{\sin^2 x}\right)dx$

6) $\int \left(\frac{10}{\cos -2x \bullet \sin -2x}\right)dx$

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

8) $\int \left(\frac{1}{\sin^2 5x}\right)dx$

9) $\int \left(\frac{-3}{\cos^2 x}\right)dx$

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

11) $\int \left(\frac{-8}{\cos -2x \bullet \sin -2x}\right)dx$

12) $\int (4\sec^2 5x)dx$

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Trigonometric Integration

Find each indefinite integral.

1) $\int \left(\frac{9}{\cos^2 2x}\right)dx$

$\frac{9}{2}\tan 2x + C$

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

$-9\cot x + C$

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

$5\cot -x + C$

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

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

5) $\int \left(\frac{5}{\sin^2 x}\right)dx$

$-5\cot x + C$

6) $\int \left(\frac{10}{\cos -2x \bullet \sin -2x}\right)dx$

$-5\ln|\tan -2x| + C$

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

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

8) $\int \left(\frac{1}{\sin^2 5x}\right)dx$

$\frac{-1}{5}\cot 5x + C$

9) $\int \left(\frac{-3}{\cos^2 x}\right)dx$

$-3\tan x + C$

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

$\tan x + C$

11) $\int \left(\frac{-8}{\cos -2x \bullet \sin -2x}\right)dx$

$-4\ln|\cot -2x| + C$

12) $\int (4\sec^2 5x)dx$

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