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Trigonometric Identities 3 Lecture Notes page 1 Sample Problems Assume the following identities: For all $x; y$ real numbers, $\sin(x + y) = \sin x \cos y + \cos x \sin y$ and $\cos(x + y) = \cos x \cos y - \sin x \sin y$. 1. Find the formula for $\tan(x + y)$ in terms of $\tan x$ and $\tan y$: 2.

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Solution: $LHS = 1 \sin x \cos x = 1 \sin x \cos x$
 $1 = 1 \sin x \cos x \frac{1+\sin x}{1+\sin x} = (1 \sin x)(1+\sin x) \cos x(1+\sin x) = 1 \sin^2 x \cos x(1+\sin x) = \cos^2 x \cos x(1+\sin x) = \cos x \frac{1+\sin x}{1+\sin x} = RHS$ c copyright
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Sample Problems - JoeMath.Com

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Solution: $\sin x \frac{1+\sin x}{1+\sin x} = \sin x (1+\sin x) \frac{1}{1+\sin x} = \sin x$
 $\sin x (1+\sin x) \frac{1}{1+\sin x} = \sin x$
 $\sin x \cos x \cos x \frac{1+\sin x}{1+\sin x} = \sin x \cos x (1+\sin x) \frac{1}{1+\sin x} = \sin x \cos x$
 $\cos x (1+\sin x) \frac{1}{1+\sin x} = \cos x$
RHS $\cos x (1+\sin x) \frac{1}{1+\sin x} = \cos x$ LHS = 1 c

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Trigonometric Identities 1 Lecture Notes 10. $1 - 2 \cos^2 x = \tan^2 x - 1$
page 5 $\tan^2 x - 1 = \tan^2 x - 1$

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Solution: The basic integral here is $\int \frac{1}{x^2 + 1} dx = \tan^{-1} x + C$. We need a substitution under which $a^2x^2 = b^2u^2$. This would be convenient because then $1 - a^2x^2 + b^2 = 1 - b^2u^2 + b^2 = 1 - b^2(1 - u^2) + 1 = 2 - b^2 + b^2u^2$
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Sample Problems - cdn.acehsc.net

Lecture Notes Trigonometric Identities 1
Sample Problems Prove each of the following identities

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Identities 1 Sample ...

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Trigonometric Substitution Integrals involving $q a^2 x^2$ Integrals involving $p x^2 + a^2$ Integrals involving $q x^2 a^2$ Integrals involving $p a^2 x^2$ Example $\int R dx x^2 p 9 x^2$ | Let $x = 3\sin d$, $dx = 3\cos d$, $p 9x^2 = p 9\sin^2 d = 3\cos^2 d$. | $\int R dx x^2 p 9 x^2 = \int R 3\cos^2 d (9\sin^2 d) 3\cos^2 d = \int R 1 9\sin^2 d = \int \cot^2 d + C = \cot(\sin^{-1} x / 3) 9 + C$ | To get an expression for $\cot(\sin^{-1} x / 3) 9 + C$...

Trigonometric Substitution Integrals involving 2 ...

The following are solutions to the Trig Substitution practice problems posted on November 9. 1. Use trig substitution to

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show that $\int \frac{1}{1+x^2} dx = \sin^{-1} x + C$

Solution: Let $x = \sin \theta$, then $dx = \cos \theta d\theta$

$\int \frac{1}{1+x^2} dx = \int \frac{\cos \theta d\theta}{1+\sin^2 \theta} = \int \frac{\cos \theta d\theta}{\cos^2 \theta} = \int \frac{1}{\cos \theta} d\theta = \int \sec \theta d\theta = \ln |\sec \theta + \tan \theta| + C$

2. Use trig substitution to show that $\int \frac{1}{1+x^2} dx = \tan^{-1} x + C$

Practice Problems: Trig Substitution

View Test Prep - trig1.pdf from

MATHEMATIC 102 at Forman Christian College, Lahore (university status).

Trigonometric Integrals 1 Lecture Notes page 1 Sample Problems Compute each of the following

trig1.pdf - Trigonometric Integrals 1 Lecture Notes page 1 ...

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1. $\int \frac{1}{2\cos^2 x} dx$ — Solution: RHS - $\tan^2 x$ —

$\frac{1}{2} \int \sec^2 x dx = \frac{1}{2} \tan x + C$

2. $\int \frac{1}{\sin^2 x} dx$ — $\int \csc^2 x dx = -\cot x + C$

3. $\int \frac{1}{\cos^2 x} dx$ — $\int \sec^2 x dx = \tan x + C$

4. $\int \frac{1}{\sin^2 x} dx$ — $\int \csc^2 x dx = -\cot x + C$

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Lecture Notes Trigonometric Identities 3
page 2 10. Find the exact value of $\tan \theta$ if
 θ is the acute angle formed by the lines $2x$
 $3y = 5$ and $5x + 3y = 1$. 11. Compute $\tan \theta$
if we know that $\tan 2\theta = 4/3$. 12. Let l be
the line $y = 3/4 x$: Find an equation for
the line that bisects the angle formed
between l and the positive part of the x
axis. 13. Find $\sin \theta$ if ...

Trigonometric Identities 3 Sample Problems

Solve each of the following equations.

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- 1.) $1 + \sin x = 2 \cos^2 x$ 2.) $3 \cos x + 3 = 2 \sin^2 x$ 3.) $\cos 3x = \cos^2 x$ 4.) $2 \cos^2 x \cos x = 3$ 5.) $2 \sin^2 x = \cos x + 1$ 6.) $2 \cos^2 x + 3 \sin x = 3$ 7.) $\sec^2 x = 4$ 8.) $\tan x \sin 2x = 3$ 4 $\tan x$ 9.) $1 + \sin x \cos x + \cos x$ $1 + \sin x = 4$ 10.) $\sin^2 x$ $1 - 2 \cos x + \cos x \sin^2 x = 1$ 2 11.) $\cot x = \cos x$ 12.) $\tan x$ $p^2 = 1$ $\tan x + p^2$.

Sample Problems - drrossymathandscience

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Lecture Notes Trigonometric
Substitutions page 1 Sample Problems
Compute each of the following integrals.
1. $\int \frac{1}{x^2 + 4} dx$ 2. $\int \frac{1}{x^2} dx$ 3. $\int \frac{1}{x^2 - 9} dx$ 4. $\int \frac{x^2}{x^2 + 16} dx$ 5. $\int \frac{1}{x^2 + 4} dx$ 6. $\int \frac{x^2}{x^2 + 9} dx$ Practice Problems
Compute each of the following integrals.
Please note that some of the integrals

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can also be solved using other ...

Sample Problems - Imtsd.org

A trigonometric equation is different from a trigonometrical identities. An identity is satisfied for every value of the unknown angle e.g., $\cos^2 x = 1 - \sin^2 x$ is true $\forall x \in R$, while a trigonometric equation is satisfied for some particular values of the unknown angle. (1) Roots of trigonometrical equation: The value of unknown angle (a variable quantity) which satisfies the given ...

How to Find the General Solution of Trigonometric ...

$(\sin x \tan x) (\cos x \cot x) = (\sin x 1) (\cos x 1)$ c copyright Hidegkuti, Powell, 2009
Last revised: May 8, 2013 3. Lecture Notes Trigonometric Identities 1 page 3
Sample Problems - Solutions 1. $\tan x \sin x + \cos x = \sec x$ Solution: We will only use the fact that $\sin^2 x + \cos^2 x = 1$ for all values of x .

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