Trigonometric Identities

Pythagorean Identities

$\sin^2 \theta + \cos^2 \theta = 1$
$1 + \tan^2 \theta = \sec^2 \theta$
$1 + \cot^2 \theta = \csc^2 \theta$

Triple Angles Identities

$\sin 3\theta = 3\sin \theta - 4\sin^3 \theta$
$\cos 3\theta = 4\cos^3 \theta - 3\cos \theta$
$\tan 3\theta = \dfrac{3 \tan \theta - \tan^3 \theta}{1 - 3 \tan^2 \theta}$

Opposite Angles Identities

$\sin (-\theta) = -\sin \theta$ $\csc (-\theta) = -\csc \theta$
$\cos (-\theta) = \cos \theta$ $\sec (-\theta) = \sec \theta$
$\tan (-\theta) = -\tan \theta$ $\cot (-\theta) = -\cot \theta$

Sum and Difference of Angles Identities

$\sin (A + B) = \sin A \cos B + \cos A \sin B$
$\sin (A - B) = \sin A \cos B - \cos A \sin B$
$\cos (A + B) = \cos A \cos B - \sin A \sin B$
$\cos (A - B) = \cos A \cos B + \sin A \sin B$
$\tan (A + B) = \dfrac{\tan A + \tan B}{1 - \tan A \tan B}$
$\tan (A - B) = \dfrac{\tan A - \tan B}{1 + \tan A \tan B}$

Supplementary Angles Identities

$\sin (180° - \theta) = \sin\theta$ $\csc (180° - \theta) = \csc \theta$
$\cos (180° - \theta) = -\cos \theta$ $\sec (180° - \theta) = -\sec \theta$
$\tan (180° - \theta) = -\tan \theta$ $\cot (180° - \theta) = -\cot \theta$

Sum-to-Product Identities

$\sin A + \sin B = 2 \sin \left(\dfrac{A + B}{2}\right) \cos \left(\dfrac{A - B}{2}\right)$
$\sin A - \sin B = 2 \sin \left(\dfrac{A - B}{2}\right) \cos \left(\dfrac{A + B}{2}\right)$
$\cos A + \cos B = -2 \sin \left(\dfrac{A + B}{2}\right) \sin \left(\dfrac{A - B}{2}\right)$
$\cos A - \cos B = 2 \cos \left(\dfrac{A + B}{2}\right) \cos \left(\dfrac{A - B}{2}\right)$

Periodic Identities

$\sin (2n\pi + \theta) = \sin \theta$
$\cos (2n\pi + \theta) = \cos \theta$
$\tan (n\pi + \theta) = \tan \theta$
$\csc (2n\pi + \theta) = \csc \theta$
$\sec (2n\pi + \theta) = \sec \theta$
$\cot (n\pi + \theta) = \cot \theta$

Complementary Angles Identities

$\sin (90° - \theta) = \cos \theta$ $\csc (90° - \theta) = \sec \theta$
$\cos (90° - \theta) = \sin \theta$ $\sec (90° - \theta) = \csc \theta$
$\tan (90° - \theta) = \cot \theta$ $\cot (90° - \theta) = \tan \theta$

Product-to-Sum Identities

$2\sin A \cdot \cos B = \sin(A + B) + \sin(A - B)$
$2\cos A \cdot \cos B = \cos(A + B) + \cos(A - B)$
$2\sin A \cdot \sin B = \cos(A - B) - \cos(A + B)$

Quotient Identities

$\tan \theta = \dfrac{\sin \theta}{\cos \theta}$ $\cot \theta = \dfrac{\cos \theta}{\sin \theta}$

Reciprocal Identities

$\sin \theta = \dfrac{1}{\csc}$
$\cos \theta = \dfrac{1}{\sec}$
$\tan \theta = \dfrac{1}{\cot}$
$\csc \theta = \dfrac{1}{\sin}$
$\sec \theta = \dfrac{1}{\cos}$
$\cot \theta = \dfrac{1}{\tan}$

Double Angles Identities

$\sin 2\theta = 2 \sin \theta \cdot \cos \theta = \dfrac{2 \tan \theta}{1 - \tan^2 \theta}$
$\cos 2\theta = \cos^2 \theta - \sin^2 \theta = \dfrac{1 - \tan^2 \theta}{1 + \tan^2 \theta}$
$\cos 2\theta = 2 \cos^2 \theta - 1 = 1 - 2 \sin^2 \theta$
$\tan 2\theta = \dfrac{2 \tan \theta}{1 + \tan^2 \theta}$
$\sec 2\theta = \dfrac{\sec^2 \theta}{2 - \sec^2 \theta}$
$\csc 2\theta = \dfrac{\sec \theta \cdot \csc \theta}{2}$
$\cot 2\theta = \dfrac{\cot^2 \theta - 1}{2 \cot \theta}$

Half Angles Identities

$\sin \dfrac{\theta}{2} = \pm \sqrt{\dfrac{1 - \cos \theta}{2}}$
$\cos \dfrac{\theta}{2} = \pm \sqrt{\dfrac{1 + \cos \theta}{2}}$
$\tan \dfrac{\theta}{2} = \pm \sqrt{\dfrac{1 - \cos \theta}{1 + \cos \theta}}$

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Åke Björck

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