

Trig Cheat Sheet by ksmarty1 via cheatography.com/28553/cs/13676/

Reciprocal Identities

csc θ = 1/sin θsec θ = 1/cos θ

 $\cot \theta = 1/\tan \theta$

Pythagorean Identities

 $\sin^2\theta + \cos^2\theta = 1$

 $sec^2\theta = 1 + tan^2\theta$

 $csc^2\theta = 1 + cot^2\theta$

Addition & Subtraction Formulas

 $sin(\alpha \pm \beta) = sin(\alpha) \; cos(\beta) \; \pm \; sin(\beta) \; cos(\alpha)$

 $cos(\alpha \pm \beta) = cos(\alpha) cos(\beta) \mp sin(\beta) sin(\alpha)$

 $tan(\alpha \pm \beta) = tan(\alpha) \pm tan(\beta)$

 $1 \mp \tan(\alpha) \tan(\beta)$

Corelated Angle Identities

 $sin(\pi/2 \pm \theta) = cos(\theta)$

 $cos(\pi/2 \pm \theta) = \mp sin(\theta)$

 $tan(\pi/2 \pm \theta) = \mp cot(\theta)$

 $\sin(3\pi/2 \pm \theta) = -\cos(\theta)$

 $cos(3\pi/2 \pm \theta) = \pm sin(\theta)$

 $tan(3\pi/2 \pm \theta) = \mp cot(\theta)$

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Double Angle Formulas

 $sin(2\theta) = 2 sin(\theta) cos(\theta)$

 $cos(2\theta) = cos^2(\theta) - sin^2(\theta)$

 $= 2 \cos^2(\theta) - 1$

 $= 1 - 2 \sin^2(\theta)$

 $tan(2\theta) = 2 tan(\theta)$

 $1 - tan^2(\theta)$

Quotient Identities

 $\tan \theta = \sin \theta / \cos \theta$

 $\cot \theta = \cos \theta / \sin \theta$

Related Angle Identities

 $sin(\pi \mp \theta) = \pm sin(\theta)$

 $cos(\pi \mp \theta) = -cos(\theta)$

 $tan(\pi \mp \theta) = \mp tan(\theta)$

 $sin(2\pi - \theta) = -sin(\theta)$

 $cos(2\pi - \theta) = cos(\theta)$

 $tan(2\pi - \theta) = -tan(\theta)$

 $sin(-\theta) = -sin(\theta)$ $cos(-\theta) = cos(\theta)$

 $tan(-\theta) = -tan(\theta)$

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