SAT PREP

Conversion of Trigonometric Ratio

	sin	cos	tan	csc	sec	cot
sin		$\pm \sqrt{1 - \cos^2 \alpha}$	$\pm \frac{\tan \alpha}{\sqrt{1 + \tan^2 \alpha}}$	$\frac{1}{\csc \alpha}$	$\pm \frac{\sqrt{\sec^2\alpha - 1}}{\sec\alpha}$	$\pm \frac{1}{\sqrt{1+\cot^2\alpha}}$
cos	$\pm \sqrt{1-\sin^2 \alpha}$		$\pm \frac{1}{\sqrt{1 + \tan^2 \alpha}}$	$\pm \frac{\sqrt{\csc^2\alpha - 1}}{\csc\alpha}$	$\frac{1}{\sec \alpha}$	$\pm \frac{\cot\alpha}{\sqrt{1+\cot^2\alpha}}$
tan	$\pm \frac{\sin\alpha}{\sqrt{1-\sin^2\alpha}}$	$\pm \frac{\sqrt{1-\cos^2 \alpha}}{\cos \alpha}$		$\pm \frac{1}{\sqrt{\csc^2 \alpha - 1}}$	$\pm \sqrt{\sec^2 \alpha - 1}$	$\frac{1}{\cot \alpha}$
csc	$\frac{1}{\sin \alpha}$	$\pm \frac{1}{\sqrt{1-\cos^2\alpha}}$	$\pm \frac{\sqrt{1 + \tan^2 \alpha}}{\tan \alpha}$		$\pm \frac{\sec \alpha}{\sqrt{\sec^2 \alpha - 1}}$	$\pm \sqrt{1 + \cot^2 \alpha}$
sec	$\pm \frac{1}{\sqrt{1-\sin^2 \alpha}}$	$\frac{1}{\cos \alpha}$	$\pm\sqrt{1+\tan^2\alpha}$	$\pm \frac{\csc \alpha}{\sqrt{\csc^2 \alpha - 1}}$		$\pm \frac{\sqrt{1 + \cot^2 \alpha}}{\cot \alpha}$
cot	$\pm \frac{\sqrt{1-\sin^2 \alpha}}{\sin \alpha}$	$\pm \frac{\cos \alpha}{\sqrt{1 - \cos^2 \alpha}}$	$\frac{1}{\tan \alpha}$	$\pm \sqrt{\csc^2 \alpha - 1}$	$\pm \frac{1}{\sqrt{\sec^2 \alpha - 1}}$	

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