11561830224 68337848832 5975061.0120482 31688629.146341 14123556.22 69994988600 108590532 7451472.7619048 42288410475 63707061418 74752195833

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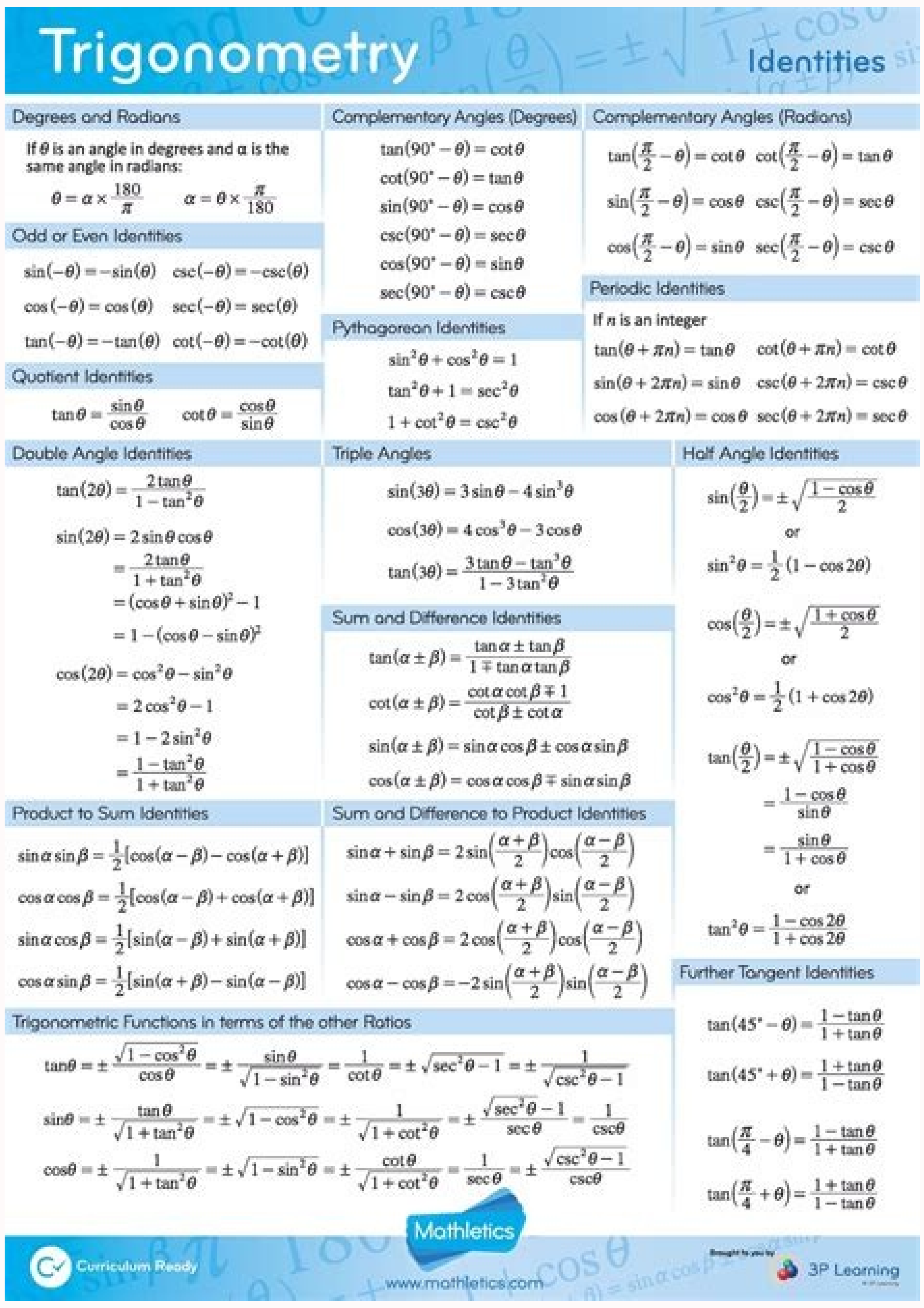


Trigonometry

Identities

Degrees and Radians

If θ is an angle in degrees and α is the same angle in radians:

$\theta = \alpha \times \frac{180}{\pi}$ $\quad \alpha = \theta \times \frac{\pi}{180}$

Odd or Even Identities

$\sin(-\theta) = -\sin(\theta)$ $\quad \csc(-\theta) = -\csc(\theta)$

$\cos(-\theta) = \cos(\theta)$ $\quad \sec(-\theta) = \sec(\theta)$

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

Quotient Identities

$\tan\theta = \frac{\sin\theta}{\cos\theta}$ $\quad \cot\theta = \frac{\cos\theta}{\sin\theta}$

Complementary Angles (Degrees)

$\tan(90^\circ - \theta) = \cot\theta$

$\cot(90^\circ - \theta) = \tan\theta$

$\sin(90^\circ - \theta) = \cos\theta$

$\csc(90^\circ - \theta) = \sec\theta$

$\cos(90^\circ - \theta) = \sin\theta$

$\sec(90^\circ - \theta) = \csc\theta$

Pythagorean Identities

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

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

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

Complementary Angles (Radians)

$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta$ $\quad \cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$

$\sin\left(\frac{\pi}{2} - \theta\right) = \cos\theta$ $\quad \csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta$

$\cos\left(\frac{\pi}{2} - \theta\right) = \sin\theta$ $\quad \sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$

Periodic Identities

If n is an integer

$\tan(\theta + \pi n) = \tan\theta$ $\quad \cot(\theta + \pi n) = \cot\theta$

$\sin(\theta + 2\pi n) = \sin\theta$ $\quad \csc(\theta + 2\pi n) = \csc\theta$

$\cos(\theta + 2\pi n) = \cos\theta$ $\quad \sec(\theta + 2\pi n) = \sec\theta$

Double Angle Identities

$\tan(2\theta) = \frac{2\tan\theta}{1 - \tan^2\theta}$

$\sin(2\theta) = 2\sin\theta\cos\theta = \frac{2\tan\theta}{1 + \tan^2\theta} = (\cos\theta + \sin\theta)^2 - 1 = 1 - (\cos\theta - \sin\theta)^2$

$\cos(2\theta) = \cos^2\theta - \sin^2\theta = 2\cos^2\theta - 1 = 1 - 2\sin^2\theta = \frac{1 - \tan^2\theta}{1 + \tan^2\theta}$

Triple Angles

$\sin(3\theta) = 3\sin\theta - 4\sin^3\theta$

$\cos(3\theta) = 4\cos^3\theta - 3\cos\theta$

$\tan(3\theta) = \frac{3\tan\theta - \tan^3\theta}{1 - 3\tan^2\theta}$

Sum and Difference Identities

$\tan(\alpha \pm \beta) = \frac{\tan\alpha \pm \tan\beta}{1 \mp \tan\alpha\tan\beta}$

$\cot(\alpha \pm \beta) = \frac{\cot\alpha\cot\beta \mp 1}{\cot\beta \pm \cot\alpha}$

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

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

Half Angle Identities

$\sin\left(\frac{\theta}{2}\right) = \pm\sqrt{\frac{1 - \cos\theta}{2}}$

or

$\sin^2\theta = \frac{1}{2}(1 - \cos 2\theta)$

$\cos\left(\frac{\theta}{2}\right) = \pm\sqrt{\frac{1 + \cos\theta}{2}}$

or

$\cos^2\theta = \frac{1}{2}(1 + \cos 2\theta)$

$\tan\left(\frac{\theta}{2}\right) = \pm\sqrt{\frac{1 - \cos\theta}{1 + \cos\theta}} = \frac{1 - \cos\theta}{\sin\theta} = \frac{\sin\theta}{1 + \cos\theta}$

or

$\tan^2\theta = \frac{1 - \cos 2\theta}{1 + \cos 2\theta}$

Product to Sum Identities

$\sin\alpha\sin\beta = \frac{1}{2}[\cos(\alpha - \beta) - \cos(\alpha + \beta)]$

$\cos\alpha\cos\beta = \frac{1}{2}[\cos(\alpha - \beta) + \cos(\alpha + \beta)]$

$\sin\alpha\cos\beta = \frac{1}{2}[\sin(\alpha - \beta) + \sin(\alpha + \beta)]$

$\cos\alpha\sin\beta = \frac{1}{2}[\sin(\alpha + \beta) - \sin(\alpha - \beta)]$

Sum and Difference to Product Identities

$\sin\alpha + \sin\beta = 2\sin\left(\frac{\alpha + \beta}{2}\right)\cos\left(\frac{\alpha - \beta}{2}\right)$

$\sin\alpha - \sin\beta = 2\cos\left(\frac{\alpha + \beta}{2}\right)\sin\left(\frac{\alpha - \beta}{2}\right)$

$\cos\alpha + \cos\beta = 2\cos\left(\frac{\alpha + \beta}{2}\right)\cos\left(\frac{\alpha - \beta}{2}\right)$

$\cos\alpha - \cos\beta = -2\sin\left(\frac{\alpha + \beta}{2}\right)\sin\left(\frac{\alpha - \beta}{2}\right)$

Further Tangent Identities

$\tan(45^\circ - \theta) = \frac{1 - \tan\theta}{1 + \tan\theta}$

$\tan(45^\circ + \theta) = \frac{1 + \tan\theta}{1 - \tan\theta}$

$\tan\left(\frac{\pi}{4} - \theta\right) = \frac{1 - \tan\theta}{1 + \tan\theta}$

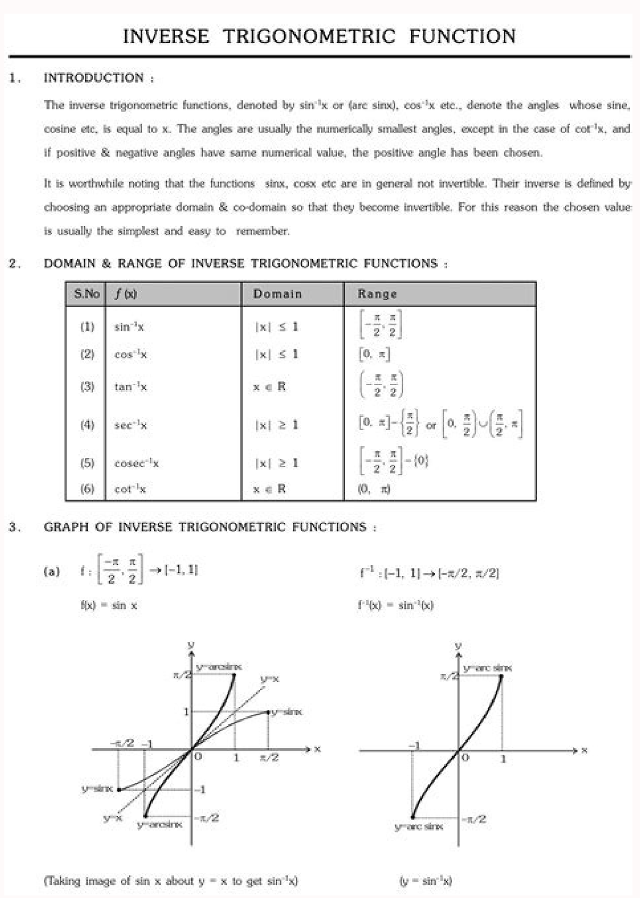
$\tan\left(\frac{\pi}{4} + \theta\right) = \frac{1 + \tan\theta}{1 - \tan\theta}$

Trigonometric Functions in terms of the other Ratios

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

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

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



INVERSE TRIGONOMETRIC FUNCTION

1. **INTRODUCTION :**

The inverse trigonometric functions, denoted by $\sin^{-1}x$ or (arc sinx), $\cos^{-1}x$ etc., denote the angles whose sine, cosine etc, is equal to x. The angles are usually the numerically smallest angles, except in the case of $\cot^{-1}x$, and if positive & negative angles have same numerical value, the positive angle has been chosen.

It is worthwhile noting that the functions sinx, cosx etc are in general not invertible. Their inverse is defined by choosing an appropriate domain & co-domain so that they become invertible. For this reason the chosen value is usually the simplest and easy to remember.

2. **DOMAIN & RANGE OF INVERSE TRIGONOMETRIC FUNCTIONS :**

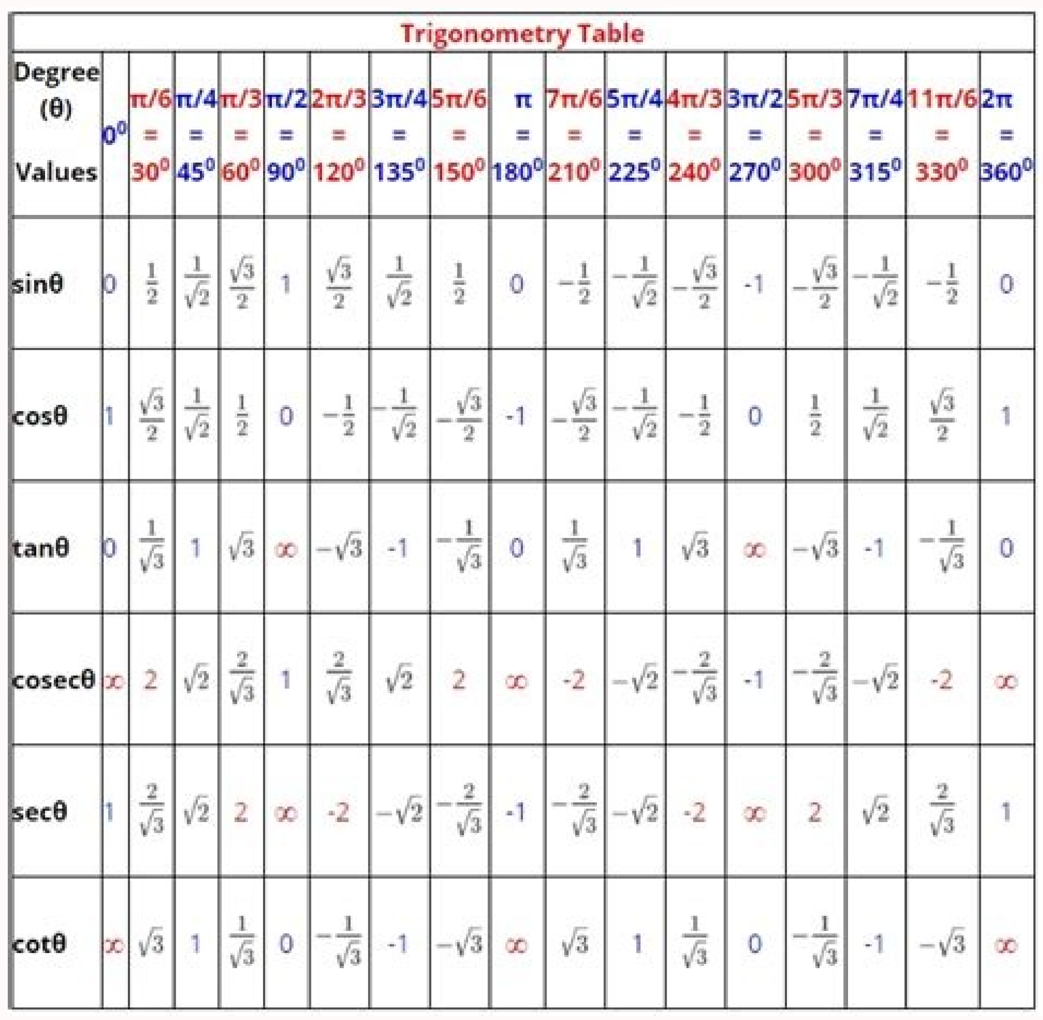
S.No	f (x)	Domain	Range
(1)	$\sin^{-1}x$	$\lvert x\rvert \le 1$	$\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
(2)	$\cos^{-1}x$	$\lvert x\rvert \le 1$	$[0, \pi]$
(3)	$\tan^{-1}x$	$x \in R$	$\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$
(4)	$\sec^{-1}x$	$\lvert x\rvert \ge 1$	$[0, \pi] - \left\{\frac{\pi}{2}\right\}$ or $\left[0, \frac{\pi}{2}\right) \cup \left(\frac{\pi}{2}, \pi\right]$
(5)	$\text{cosec}^{-1}x$	$\lvert x\rvert \ge 1$	$\left[-\frac{\pi}{2}, \frac{\pi}{2}\right] - \{0\}$
(6)	$\cot^{-1}x$	$x \in R$	$(0, \pi)$

3. **GRAPH OF INVERSE TRIGONOMETRIC FUNCTIONS :**

(a) $f : \left[\frac{-\pi}{2}, \frac{\pi}{2}\right] \to [-1, 1]$ $\qquad f^{-1} : [-1, 1] \to [-\pi/2, \pi/2]$

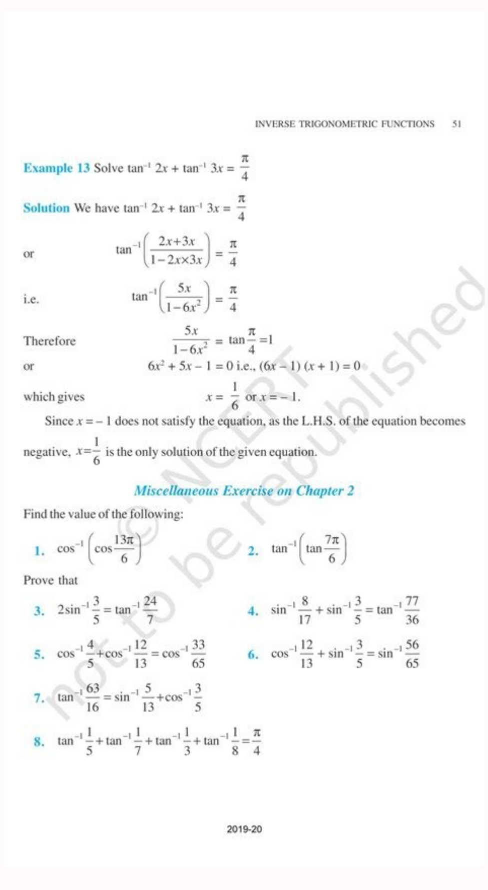
$f(x) = \sin x$ $\qquad f^{-1}(x) = \sin^{-1}(x)$

(Taking image of sin x about y = x to get $\sin^{-1}x$) $\qquad$ ($y = \sin^{-1}x$)



Trigonometry Table

Degree (θ) Values	0^0	π/6 = 30^0	π/4 = 45^0	π/3 = 60^0	π/2 = 90^0	2π/3 = 120^0	3π/4 = 135^0	5π/6 = 150^0	π = 180^0	7π/6 = 210^0	5π/4 = 225^0	4π/3 = 240^0	3π/2 = 270^0	5π/3 = 300^0	7π/4 = 315^0	11π/6 = 330^0	2π = 360^0
sinθ	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{1}{\sqrt{2}}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{\sqrt{2}}$	$-\frac{1}{2}$	0
cosθ	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{1}{\sqrt{2}}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{\sqrt{2}}$	$-\frac{1}{2}$	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
tanθ	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞	$-\sqrt{3}$	-1	$-\frac{1}{\sqrt{3}}$	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞	$-\sqrt{3}$	-1	$-\frac{1}{\sqrt{3}}$	0
cosecθ	∞	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$	1	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2	∞	-2	$-\sqrt{2}$	$-\frac{2}{\sqrt{3}}$	-1	$-\frac{2}{\sqrt{3}}$	$-\sqrt{2}$	-2	∞
secθ	1	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2	∞	-2	$-\sqrt{2}$	$-\frac{2}{\sqrt{3}}$	-1	$-\frac{2}{\sqrt{3}}$	$-\sqrt{2}$	-2	∞	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$	1
cotθ	∞	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0	$-\frac{1}{\sqrt{3}}$	-1	$-\sqrt{3}$	∞	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0	$-\frac{1}{\sqrt{3}}$	-1	$-\sqrt{3}$	∞



Example 13 Solve $\tan^{-1} 2x + \tan^{-1} 3x = \frac{\pi}{4}$

Solution We have $\tan^{-1} 2x + \tan^{-1} 3x = \frac{\pi}{4}$

or $\quad \tan^{-1}\left(\frac{2x+3x}{1-2x\times 3x}\right) = \frac{\pi}{4}$

i.e. $\quad \tan^{-1}\left(\frac{5x}{1-6x^2}\right) = \frac{\pi}{4}$

Therefore $\quad \frac{5x}{1-6x^2} = \tan\frac{\pi}{4} = 1$

or $\quad 6x^2 + 5x - 1 = 0$ i.e., $(6x - 1)(x + 1) = 0$

which gives $\quad x = \frac{1}{6}$ or $x = -1$.

Since $x = -1$ does not satisfy the equation, as the L.H.S. of the equation becomes negative, $x = \frac{1}{6}$ is the only solution of the given equation.

Miscellaneous Exercise on Chapter 2

Find the value of the following:

1. $\cos^{-1}\left(\cos\frac{13\pi}{6}\right)$ $\qquad$ 2. $\tan^{-1}\left(\tan\frac{7\pi}{6}\right)$

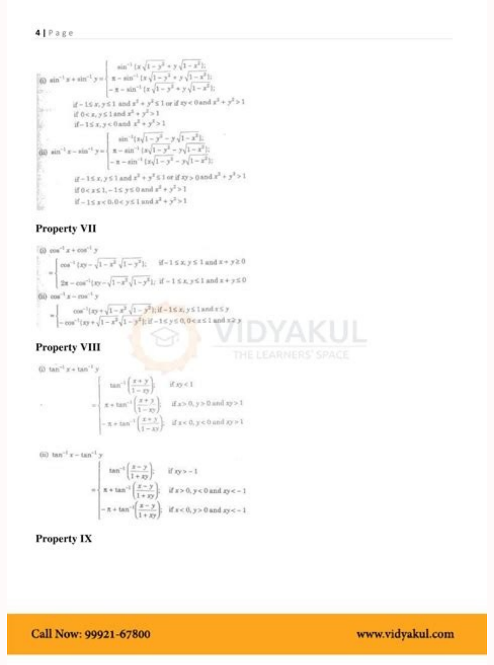
Prove that

3. $2\sin^{-1}\frac{3}{5} = \tan^{-1}\frac{24}{7}$ $\qquad$ 4. $\sin^{-1}\frac{8}{17} + \sin^{-1}\frac{3}{5} = \tan^{-1}\frac{77}{36}$

5. $\cos^{-1}\frac{4}{5} + \cos^{-1}\frac{12}{13} = \cos^{-1}\frac{33}{65}$ $\qquad$ 6. $\cos^{-1}\frac{12}{13} + \sin^{-1}\frac{3}{5} = \sin^{-1}\frac{56}{65}$

7. $\tan^{-1}\frac{63}{16} = \sin^{-1}\frac{5}{13} + \cos^{-1}\frac{3}{5}$

8. $\tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{7} + \tan^{-1}\frac{1}{3} + \tan^{-1}\frac{1}{8} = \frac{\pi}{4}$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