MISSION SELECTION

एसएससी CGL/CHSL/CPO SERIES

MATHS

Trigonometry

(त्रिकोणमिति)

Part-3

7:30 PM

Trigonometry
त्रिकोणमिती

Mahendra's
MAHENDRA INTERACTIVE CLASS(MIC) BATCH STARTS ON EVERY WEDNESDAY
FOR MORE DETAILS KINDLY CONTACT TO OUR TOLL-FREE NUMBER 1800-103-5225

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Ex: If $0^0 < A < 90^0$ and $\cos A = \frac{4}{5}$, then find the value of $\cot A + \operatorname{cosec} A$.

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Ex: If the angle θ is in the first quadrant and $\tan\theta = 3$,then what is the value of $(\sin\theta + \cos\theta)$.

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Ex: If $\sec\theta = \frac{13}{5}$, then find the value of $\frac{2\sin\theta - 3\cos\theta}{4\sin\theta - 9\cos\theta}$

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Ex: If θ is acute angle and $\cos\theta = \frac{15}{17}$, then find the value of $\cot(90^0 - \theta)$.

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Ex: Find the value of $(1-\sin^2\theta)(1+\tan^2\theta)$.

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Ex : If $\sin\theta + \cos\theta = 1$, then find the value of $\sin\theta\cos\theta$.

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Ex: If $\sin\theta . \cos\theta = \frac{\sqrt{3}}{4}$, then the value of $\sin^4\theta + \cos^4\theta$ is:

Sol:

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Ex: If $tan\beta = \frac{4}{3}$, then what is the value of $\frac{1 - sin\beta}{1 + sin\beta}$

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Ex: If $\frac{sin\alpha}{x} = \frac{cos\alpha}{y}$, then what is the value of $sin\alpha - cos\alpha$

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Ex: Find the value of $\sin 75^0$.

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Ex : If $\sec^2 x + \tan^2 x = 7$ then find the value of x ?

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Ex : If $\sin(\theta+34^0) = \cos\theta$ and $(\theta+34^0)$ is acute , then θ = ?

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Ex: Find the value of $Sin\,53°\,cos\,37° + cos53°sin\,37°$

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Ex: What is the value of $\sin^2 27^o + \sin^2 63^o + \frac{1}{\cos^2 27^o + \cos^2 63^o}$

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Ex: Find the value of $\cos(40^o - \theta) - \sin(50^o + \theta) + \frac{\cos^2 40^0 + \cos^2 50^0}{\sin^2 40^0 + \sin^2 50^0}$.

Sol:

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Ex: Find the value of $(1+ \sec 20^0 + \cot 70^0)(1 - \operatorname{cosec} 20^0 + \tan 70^0)$.

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