

MAH MCA CET 2025

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MATHS

Trigonometric Identities Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

- If for real value of x , $\cos\theta = x + \frac{1}{x}$ then
 - θ is an acute angle
 - θ is a right angle
 - θ is an obtuse angle
 - No value of θ is possible
- Which of the following is correct?
 - $\tan 1 > \tan 2$
 - $\tan 1 = \tan 2$
 - $\tan 1 < \tan 2$
 - $\tan 1 = 1$
- Which of the following relations is correct?
 - $\sin 1 < \sin 1^\circ$
 - $\sin 1 > \sin 1^\circ$
 - $\sin 1 = \sin 1^\circ$
 - $\frac{\pi}{180} \sin 1 = \sin 1^\circ$
- $\tan 1^\circ \tan 2^\circ \tan 3^\circ \tan 4^\circ \dots \tan 89^\circ$ is equal to
 - 1
 - 0
 - ∞
 - $\frac{1}{2}$
- If $\sin x + \sin y = 3(\cos y - \cos x)$, then the value of $\frac{\sin 3x}{\sin 3y}$ is
 - 1
 - 1
 - 0
 - None of these
- If θ lies in the second quadrant, then the value of $\sqrt{\frac{1 - \sin\theta}{1 + \sin\theta}} + \sqrt{\frac{1 + \sin\theta}{1 - \sin\theta}}$
 - $2\sec\theta$
 - $-2\sec\theta$
 - $2\operatorname{cosec}\theta$
 - None of these
- If $\tan\theta + \sec\theta = e^x$ then $\cos\theta$ is equal to
 - $\frac{e^x + e^{-x}}{2}$
 - $\frac{e^x + e^{-x}}{e^x - e^{-x}}$
 - $\frac{2}{e^x - e^{-x}}$
 - $\frac{e^x - e^{-x}}{e^x + e^{-x}}$
- If $\sin\theta_1 + \sin\theta_2 + \sin\theta_3 = 3$ then $\cos\theta_1 + \cos\theta_2 + \cos\theta_3$ is equal to
 - 3
 - 2
 - 1
 - 0
- $(\sec A + \tan A - 1)(\sec A - \tan A + 1) - 2\tan A$ is equal to
 - $\sec A$
 - $2\sec A$

