



MATHS

MICROCONCEPTS

Trigonometric ratios

All Questions

1. Review of some terms



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2. Measure of an Angle



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3. Trigonometric Ratios



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4. Trigonometric ratios are same for same angle



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5. Relation between trigonometric ratios



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6. Trigonometric ratios of 0° and 90°



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7. Trigonometric ratios for 30° and 60°



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8. Trigonometric ratios for 45°



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9. Prove that: $\frac{\cos 30^\circ + \sin 60^\circ}{1 + \cos 60^\circ + \sin 30^\circ} = \frac{\sqrt{3}}{2}$



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10. Trigonometric value of complementary angle



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11.

Evaluate :

$$\tan 5^\circ \tan 25^\circ \tan 30^\circ \tan 65^\circ \tan 85^\circ$$



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12. Find θ ; if $\sin(\theta + 36^\circ) = \cos \theta$; where $\theta + 36$ is an acute angle.



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13. If $A + B = 90^\circ$; prove that

$$\sqrt{\frac{\tan A \tan B + \tan A \cot B}{\sin A \sec B}} - \frac{\sin^2 B}{\cos^2 A} = \tan A$$



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14. In a ΔABC ; right angled at A; If

$AB=5$; $AC=12$ and $BC=13$; find $\sin B$; $\cos C$ and $\tan B$



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15. In a ΔABC , right angled at B. If $\sin A = \frac{3}{5}$, find $\cos A, \tan A, \sec A$ and $\csc B$.



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16. Trigonometric values for some special angle between 0° to 90°



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17. Evaluate the following :

$$(i) \frac{\cos 37^\circ}{\sin 53^\circ} (ii) \frac{\sin 41^\circ}{\cos 49^\circ} (iii) \frac{\tan 54^\circ}{\cot 36^\circ}$$



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