

Practice Questions on Trigonometric Ratios

Unsolved

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Q1) Find the value of $\cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \cos 179^\circ$.

Q2) If $a+b=\pi/2$ and $b+c=a$, then find $\tan a$.

Q3) If $\tan 25^\circ = x$, then find $(\tan 155^\circ - \tan 115^\circ) / (1 + \tan 155^\circ \cdot \tan 115^\circ)$.

Q4) If $A+B+C=3\pi/2$, then find $\cos 2A + \cos 2B + \cos 2C$.

Q5) Predict the quadrant where A lies, if $\sin A$ is negative and $\tan A = \text{positive}$.

Q6) Calculate $\sin A$, if $\cos A$ is $1/2$.

Q7) Find the maximum and minimum value of $\cos 2x + \cos^2 x$.

Q8) Find the value of $\sin 27^\circ - \cos 27^\circ$.

Q9) If $\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ = 4x^2 + 2x$, then find value of x .

Q10) Find the value of $\cos \pi/10 \cos 2\pi/10 \cos 4\pi/10 \cos 8\pi/10 \cos 16\pi/10$.