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Important Trigonometric Formulas

Textbook of Algebra and Trigonometry for Class XI
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- $\sin^2\theta + \cos^2\theta = 1$
- $1 + \tan^2\theta = \sec^2\theta$
- $1 + \cot^2\theta = \csc^2\theta$
- $\sin(-\theta) = -\sin\theta$
- $\cos(-\theta) = \cos\theta$
- $\tan(-\theta) = -\tan\theta$

- $\sin(\alpha + \beta) = \sin\alpha\cos\beta + \cos\alpha\sin\beta$
- $\sin(\alpha - \beta) = \sin\alpha\cos\beta - \cos\alpha\sin\beta$
- $\cos(\alpha + \beta) = \cos\alpha\cos\beta - \sin\alpha\sin\beta$
- $\cos(\alpha - \beta) = \cos\alpha\cos\beta + \sin\alpha\sin\beta$
- $\tan(\alpha + \beta) = \dfrac{\tan\alpha + \tan\beta}{1 - \tan\alpha\tan\beta}$
- $\tan(\alpha - \beta) = \dfrac{\tan\alpha - \tan\beta}{1 + \tan\alpha\tan\beta}$

- $\sin 2\theta = 2\sin\theta\cos\theta$
- $\cos 2\theta = \cos^2\theta - \sin^2\theta$
- $\tan 2\theta = \dfrac{2\tan\theta}{1 - \tan^2\theta}$

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

- $\sin 3\theta = 3\sin\theta - 4\sin^3\theta$
- $\cos 3\theta = 4\cos^3\theta - 3\cos\theta$
- $\tan 3\theta = \dfrac{3\tan\theta - \tan^3\theta}{1 - 3\tan^2\theta}$

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

- $\sin(\alpha + \beta) + \sin(\alpha - \beta) = 2\sin\alpha\cos\beta$
- $\sin(\alpha + \beta) - \sin(\alpha - \beta) = 2\cos\alpha\sin\beta$
- $\cos(\alpha + \beta) + \cos(\alpha - \beta) = 2\cos\alpha\cos\beta$
- $\cos(\alpha + \beta) - \cos(\alpha - \beta) = -2\sin\alpha\sin\beta$

- $\sin\theta + \sin\phi = 2\sin\dfrac{\theta + \phi}{2}\cos\dfrac{\theta - \phi}{2}$
- $\sin\theta - \sin\phi = 2\cos\dfrac{\theta + \phi}{2}\sin\dfrac{\theta - \phi}{2}$
- $\cos\theta + \cos\phi = 2\cos\dfrac{\theta + \phi}{2}\cos\dfrac{\theta - \phi}{2}$
- $\cos\theta - \cos\phi = -2\sin\dfrac{\theta + \phi}{2}\sin\dfrac{\theta - \phi}{2}$

- $\sin^{-1}A + \sin^{-1}B = \sin^{-1}\left(A\sqrt{1 - B^2} + B\sqrt{1 - A^2}\right)$
- $\sin^{-1}A - \sin^{-1}B = \sin^{-1}\left(A\sqrt{1 - B^2} - B\sqrt{1 - A^2}\right)$
- $\cos^{-1}A + \cos^{-1}B = \cos^{-1}\left(AB - \sqrt{(1 - A^2)(1 - B^2)}\right)$
- $\cos^{-1}A - \cos^{-1}B = \cos^{-1}\left(AB + \sqrt{(1 - A^2)(1 - B^2)}\right)$
- $\tan^{-1}A + \tan^{-1}B = \tan^{-1}\dfrac{A + B}{1 - AB}$
- $\tan^{-1}A - \tan^{-1}B = \tan^{-1}\dfrac{A - B}{1 + AB}$

Three Steps to solve $\sin\left(n\cdot\dfrac{\pi}{2} \pm \theta\right)$

Step I: First check that n is even or odd.
Step II: If n is even then the answer will be in *sin* and if the n is odd then *sin* will be converted to *cos* and vice versa (i.e. *cos* will be converted to *sin*).

Step III: Now check in which quadrant $n\cdot\dfrac{\pi}{2} \pm \theta$ is lying if it is in *Ist* or *2nd* quadrant the answer will be positive as *sin* is positive in these quadrants and if it is in the *IIIrd* or *IVth* quadrant the answer will be negative.

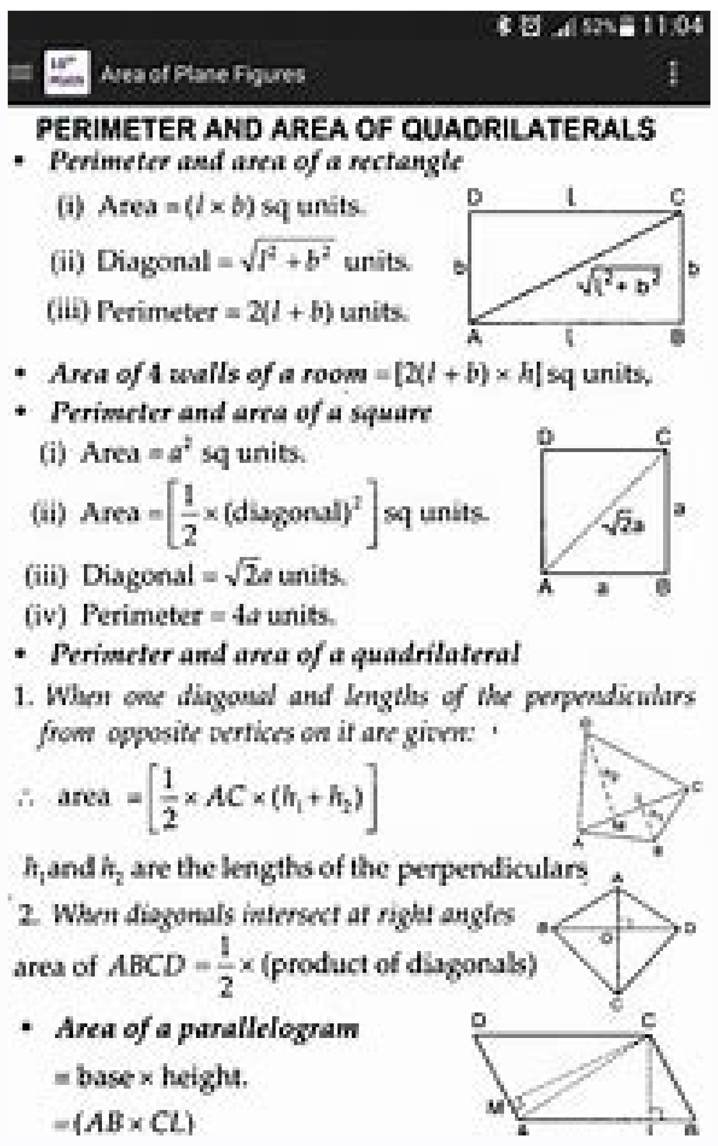
e.g. $\sin 667^\circ = \sin(7(90) + 37)$

Since n = 7 is odd so answer will be in *cos* and 667 is in *IVth* quadrant and *sin* is -ive in *IVth* quadrant therefore answer will be in negative. i.e. $\sin 667^\circ = -\cos 37^\circ$

Similar technique is used for other trigonometric ratios. i.e. tan ⇔ cot and sec ⇔ csc.

Made By: **Atiq ur Rehman**, Email: atiq@mathcity.org, http://www.mathcity.org
Corrected by: **Salman Zaidi**

$$
\begin{aligned}
\dot{p} &= \sqrt{\frac{p}{\mu}}\frac{2p}{w}\frac{T}{m}\alpha_t \\
\dot{f} &= \sqrt{\frac{p}{\mu}}\left[\sin L\frac{T}{m}\alpha_r + \frac{(1+w)\cos L + f}{w}\frac{T}{m}\alpha_t \right.\\
&\quad \left. - \frac{(h\sin L - k\cos L)g}{w}\frac{T}{m}\alpha_n\right] \\
\dot{g} &= \sqrt{\frac{p}{\mu}}\left[-\cos L\frac{T}{m}\alpha_r + \frac{(1+w)\sin L + g}{w}\frac{T}{m}\alpha_t \right.\\
&\quad \left. + \frac{(h\sin L - k\cos L)f}{w}\frac{T}{m}\alpha_n\right] \qquad (2) \\
\dot{h} &= \sqrt{\frac{p}{\mu}}\frac{s^2\cos L}{2w}\frac{T}{m}\alpha_n \\
\dot{k} &= \sqrt{\frac{p}{\mu}}\frac{s^2\sin L}{2w}\frac{T}{m}\alpha_n \\
\dot{L} &= \sqrt{\mu p}\left(\frac{w}{p}\right)^2 + \sqrt{\frac{p}{\mu}}\frac{h\sin L - k\cos L}{w}\frac{T}{m}\alpha_n
\end{aligned}
$$



Area of Plane Figures

PERIMETER AND AREA OF QUADRILATERALS

- ***Perimeter and area of a rectangle***

(i) Area = $(l \times b)$ sq units.

(ii) Diagonal = $\sqrt{l^2 + b^2}$ units.

(iii) Perimeter = $2(l + b)$ units.

- ***Area of 4 walls of a room*** = $[2(l + b) \times h]$ sq units,
- ***Perimeter and area of a square***

(i) Area = a^2 sq units.

(ii) Area = $\left[\frac{1}{2} \times (\text{diagonal})^2\right]$ sq units.

(iii) Diagonal = $\sqrt{2}a$ units.

(iv) Perimeter = $4a$ units.

- ***Perimeter and area of a quadrilateral***

1. *When one diagonal and lengths of the perpendiculars from opposite vertices on it are given:*

$\therefore$ area = $\left[\frac{1}{2} \times AC \times (h_1 + h_2)\right]$

h_1 and h_2 are the lengths of the perpendiculars

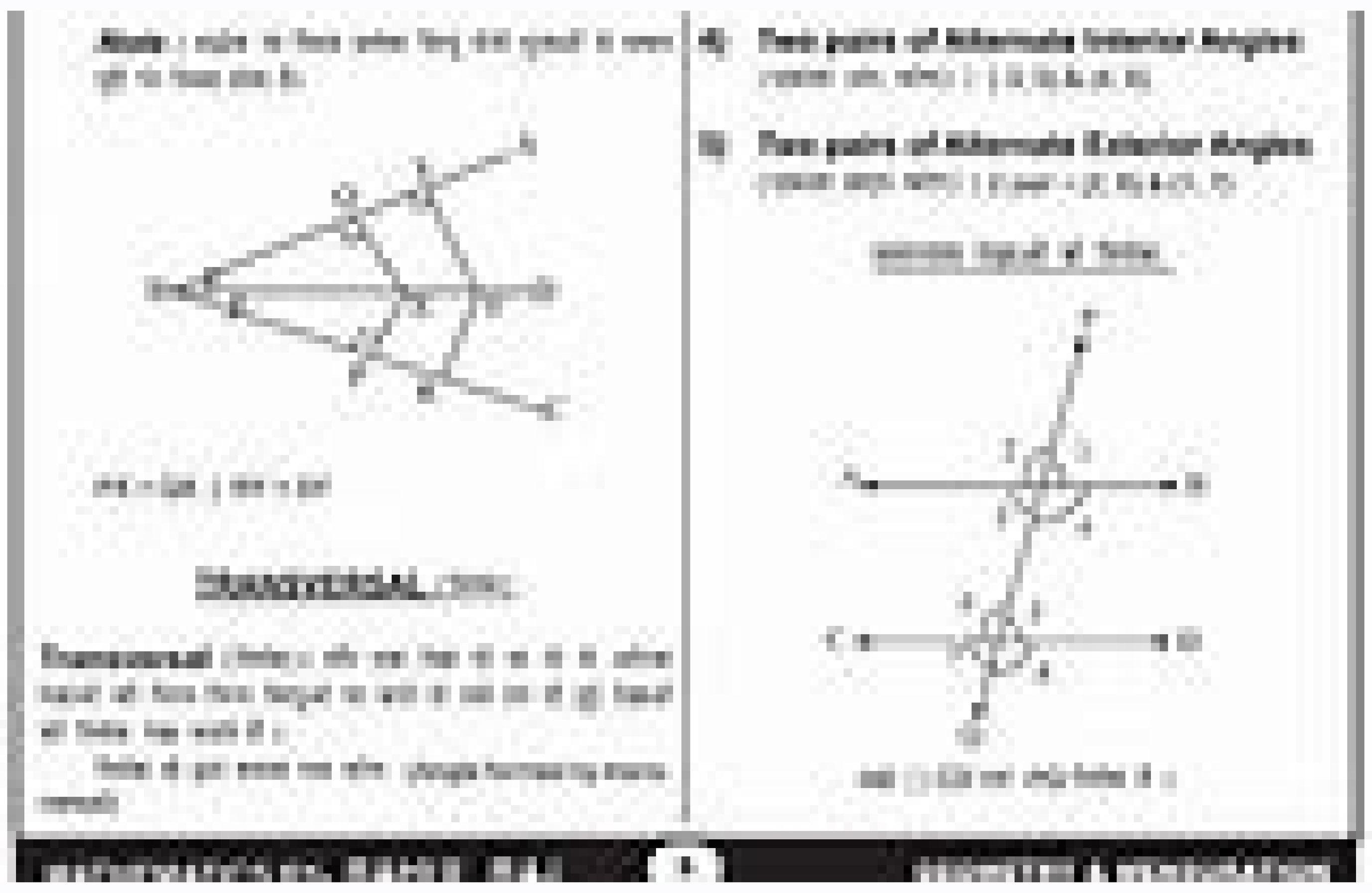
2. *When diagonals intersect at right angles*

area of $ABCD = \frac{1}{2} \times$ (product of diagonals)

- ***Area of a parallelogram***

= base × height.

= $(AB \times CL)$.



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Among all school subjects, mathematics are often difficult for young people. The reality is that mathematical problems can help students learn to navigate the world that surrounds them in actually practical ways, strengthening rational thinking, skills to solve problems and abstract thinking. Think about going to the grocery store and have to calculate the price of a pound of bulk food, for example. Or think about a 25% discount at the student's favorite sports store. Many students do not have enough practice in the application of mathematics, and may feel that they do not have success in it. Fortunately, there are many great games of mathematics available online for free, and they are so attractive that people who do not like mathematics can change their opinion about it. Parents and students can easily access them to improve their mathematical skills. We have found some of them and shared here the details about Cool Math Games, Ampa and Hooda, which can contribute to students to navigate the world of more easily mathematics. Coolmath Games helps everyone to train their brains, using logic, thinking and mathematics. The site adopts a fun approach in learning and presents challenges in multiple levels. They boast that users will not even know that they are receiving mental training when they are using one of the hundreds of games on the site. The games are organized according to the types of skill, including logic, strategy, number and mobile. What, of course, takes the name: Learning is great when it is designed to be the correct type of challenge. Cool Math offers free classes of online mathematics, mathematical games and mathematical activities. Includes pre-Algebra lessons, Álgebra and pre-calculation. Additional tools Line graphic calculators, geometry art, polyhedra, fractals and areas specially designated for parents and teachers, so that everyone can participate in the learning process. The site is like an amusement park to learn mathematics, and that is really great. Mathematics games ABCA is another popular way to help students students Your mathematical skills. The website offers a variety of educational games and activities for school-age children. Games are organized by categories of subjects, such as numbers, letters and vacations, and at pre-kindergarten grade levels up to fifth grade. In addition, many of the free games meet the requirements within the Basic State State Standards Initiative. The site is very popular due to its content and its easy-to-use interface. In addition, the name is intelligent and easy to remember. ABCAA has created a series of applications for the practice and learning of mathematics in motion. Due to the success of these applications, the site is classified as an important 20 editor in the IOS App Store Education category and an important 25 editor in their KIDS category. Who would not want to try more about mathematics with games like "Porcent Panic", "Secret Message Maker" and "State Bingo"? HOOA MATH GAMES is another place in popular line, free for mathematical games launched to kindergarten through high school students. Like other sites, students who interact with games can commit themselves to them to learn more about the mathematics in creative ways. They can learn how to assemble a machine, to buy clothes or build a bridge, for example. Users choose from grade level and categories, including logic, geometry and physics, and then choose the subject of coincidence, such as addiction, subtraction, multiplication, division, fractions, whole and { LGEBRA The site offers more than 500 games based â €

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