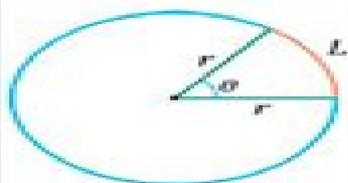


### MEDIDA DE UN ANGLULO



$$L = \theta r$$

$$180^\circ = 200^\circ = \pi \text{ rad}$$

$$\frac{S}{180^\circ} = \frac{C}{200^\circ} = \frac{R}{\pi \text{ rad}}$$

$$1^\circ = \frac{\pi}{180} \text{ rad}$$

$$1 \text{ rad} = \frac{180^\circ}{\pi}$$

### TRIGONOMETRÍA DE ANGLULO RECTO (SOH-CAH-TOA)

	$\frac{S}{H}$	$\frac{C}{H}$	$\frac{T}{A}$
	$\sin \theta = \frac{O}{H}$	$\cos \theta = \frac{A}{H}$	$\tan \theta = \frac{O}{A}$
	$\csc \theta = \frac{H}{O}$	$\sec \theta = \frac{H}{A}$	$\cot \theta = \frac{A}{O}$
$O = \text{cateto Opuesto}$ $S = \text{seno}$	$A = \text{cateto Adyacente}$ $C = \text{coseno}$	$H = \text{Hipotenusa}$ $T = \text{tangente}$	

### ¿PROBLEMAS CON TRIGONOMETRÍA?

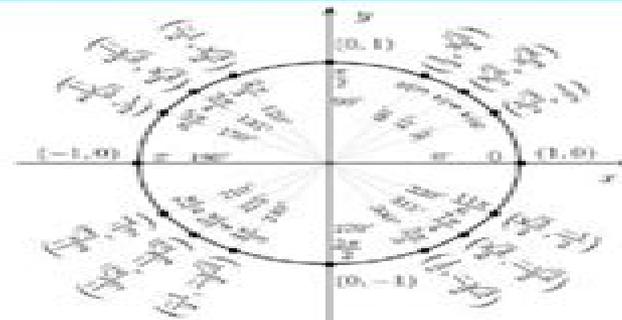
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### RAZONES TRIGONOMÉTRICAS DE ANGLULOS NOTABLES

$\theta$	radianes	$\sin \theta$	$\cos \theta$	$\tan \theta$
$0^\circ$	0	0	1	0
$30^\circ$	$\frac{\pi}{6}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$
$45^\circ$	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
$60^\circ$	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
$90^\circ$	$\frac{\pi}{2}$	1	0	-
$180^\circ$	$\pi$	0	-1	0
$270^\circ$	$\frac{3\pi}{2}$	-1	0	-
$360^\circ$	0	0	1	0

### CIRCUNFERENCIA TRIGONOMETRICA



$\sin \theta = y$	$\cos \theta = x$	$\tan \theta = \frac{y}{x}$
$\csc \theta = \frac{1}{y}$	$\sec \theta = \frac{1}{x}$	$\cot \theta = \frac{x}{y}$

### IDENTIDADES DE TANGENTE Y COTANGENTE

$\tan \theta = \frac{\sin \theta}{\cos \theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$
-------------------------------------------------	-------------------------------------------------

### IDENTIDADES RECÍPROCAS

$\csc \theta = \frac{1}{\sin \theta}$	$\sin \theta = \frac{1}{\csc \theta}$
$\sec \theta = \frac{1}{\cos \theta}$	$\cos \theta = \frac{1}{\sec \theta}$
$\cot \theta = \frac{1}{\tan \theta}$	$\tan \theta = \frac{1}{\cot \theta}$

### IDENTIDADES PITAGÓRICAS

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$\cot^2 \theta + 1 = \csc^2 \theta$$

### IDENTIDADES PAR / IMPAR

$\sin(-\theta) = -\sin \theta$	$\csc(-\theta) = -\csc \theta$
$\cos(-\theta) = \cos \theta$	$\sec(-\theta) = \sec \theta$
$\tan(-\theta) = -\tan \theta$	$\cot(-\theta) = -\cot \theta$



# Formulario De Trigonometria

**DJ Losen**



## **Formulario De Trigonometria :**

Geometria y Trigonometria , *Formulario de Trigonometria* ,1938 **TRIGONOMETRÍA PLANA Y ESFÉRICA CON APLICACIONES A LA NAVEGACIÓN** BLANCO FILGUEIRA, FRANCISCO, MUIÑOS FERNANDEZ, MARIA JOSE, RODRIGUEZ AROS, ANGEL DANIEL, 2012-01-01 Esta obra nace con el objetivo de proporcionar a la comunidad universitaria un manual de referencia que recoja los contenidos más importantes de la Trigonometría plana y esférica. Es por lo tanto útil tanto para profesores como para alumnos de muy variadas disciplinas universitarias desde Matemáticas hasta Navegación Marítima sin olvidar otras como Astronomía, Topografía, Física, Arquitectura, Aeronáutica, etc. Se incluyen contenidos específicos para los estudiantes de los centros de enseñanzas técnicas en los que se aplica la Trigonometría plana y esférica para la resolución de problemas prácticos de Navegación. El texto cuenta con medios de autoevaluación abundantes ejemplos y material gráfico de apoyo. También incluye una amplia colección de ejercicios resueltos y propuestos al final de cada capítulo que sirven para comprobar y fijar los conocimientos del lector. Por último esta obra ofrece un importante material complementario como son varios programas implementados sobre Matlab. El lector podrá descargar estas aplicaciones desde la web de la editorial. *Formulario de trigonometría* Antonio Traverso Masiello, 1972 *Host Bibliographic Record for Boundwith Item Barcode 30112044669122 and Others* ,2013 **Guía-Catalogo** ,1962

Geometría y Trigonometría Carpintheyro Vigil, Eduardo, 2018-01-01 Geometría y trigonometría. Conceptos y aplicaciones de Eduardo Carpintheyro aborda en su totalidad el programa de estudios actualizado de la materia y mantiene el enfoque pedagógico por competencias. La obra se inscribe en el eje Del tratamiento del espacio, la forma y la medida a los pensamientos geométrico y trigonométrico y se ha organizado en cuatro partes con sus respectivos contenidos centrales y específicos. En cada parte se integran interesantes actividades para realizar de manera individual y en trabajo colaborativo y cooperativo. También se integran propuestas de actividades socioemocionales. El libro incluye un proyecto integrador ubicado al inicio de cada parte con la finalidad de que el estudiante investigue, analice, reflexione y organice su trabajo de tal forma que proponga distintas formas de solución de una manera integral y sistemática. Los contenidos de este libro posibilitan el desarrollo gradual y sucesivo de conocimientos y habilidades, asimismo propician la disposición al cumplimiento, la participación y el trabajo autónomo y promueven valores que se traducen en respeto, tolerancia y responsabilidad entre otros que se alinea el programa. *Geometría y Trigonometría* Salazar Guerrero, Ludwig, Bahena Román, Hugo, Martínez Sánchez, Rafael, 2020-11-04 Esta segunda edición totalmente actualizada presenta los conocimientos fundamentales de la geometría y la trigonometría bajo un enfoque que incluye proyectos de investigación en matemáticas y elaboración de productos integradores, ejercicios con calculadora científica y graficador winplot. Una obra que promueve el trabajo en equipo y que incluye fragmentos históricos de los personajes más destacados en matemáticas y sus aportaciones a esta ciencia. Se integran 26 actividades. Deduce y aprende como secuencias de aprendizaje **Guía-catálogo de la Feria Nacional del Libro** ,1966

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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