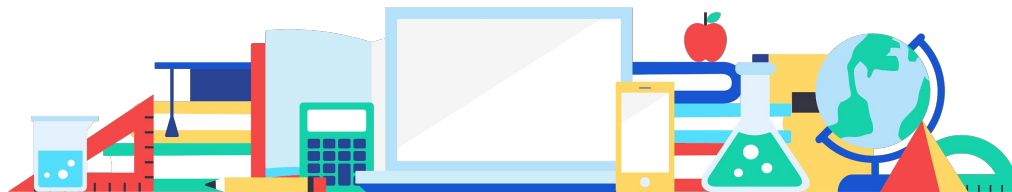




Trigonometry Review Guide

Updated January 2020



Key Topics

Key Topics Covered in Trigonometry

- Pythagorean Theorem
- Trigonometric Functions
 - ◆ Sine, cosine & tangent
 - ◆ Solving for sides & angles of right triangles using trigonometric ratios
 - ◆ Reciprocal identities (secant, cosecant & cotangent)
 - ◆ Trigonometric ratios & similarity
 - ◆ Trigonometric ratios of special triangles
- Unit Circle
 - ◆ Degrees & radians
 - ◆ Unit circle definition of trigonometric functions
 - ◆ Pythagorean identity
 - ◆ Value of trigonometric functions for special angles
 - ◆ Introduction to polar coordinates
- Graphing the Trigonometric Functions
 - ◆ Graphs of trigonometric functions
 - ◆ Amplitude and period of trigonometric functions
 - ◆ Range & domain of trigonometric functions
- Trigonometric Equations and Identities
 - ◆ Inverse trigonometric functions (arcsin, arccos, arctan)
 - ◆ Sum and difference formulas
 - ◆ Double and half angle formulas
 - ◆ Even and odd trigonometric functions
 - ◆ Cofunction identities
 - ◆ Sum to product & product to sum formulas
- Trigonometry with General Triangles
 - ◆ Law of sines & law of cosines

Trigonometry

Additional Resources

- <https://www.khanacademy.org/math/trigonometry>
- <https://opus.govst.edu/cgi/viewcontent.cgi?article=1176&context=capstones>
- <http://tutorial.math.lamar.edu/Extras/AlgebraTrigReview/TrigIntro.aspx>
- http://tutorial.math.lamar.edu/pdf/Trig_Cheat_Sheet.pdf
- <http://www.softschools.com/math/trigonometry/>
- <http://www.pstcc.edu/facstaff/jwlamb/1910/unitcircletrigreview.pdf>
- <http://web.mit.edu/jorloff/www/18.01a-esg/OCWTrig.pdf>
- <https://www.mathsisfun.com/algebra/trigonometry.html>
- <https://www.ocf.berkeley.edu/~daradib/chsntech/review/math/review-trig.pdf>
- <http://jwilson.coe.uga.edu/EMAT6680/Adcock/Adcock6690/RLAInstructUnit1/RLATrigMenu.htm>