Trigonometry Topics & Resources

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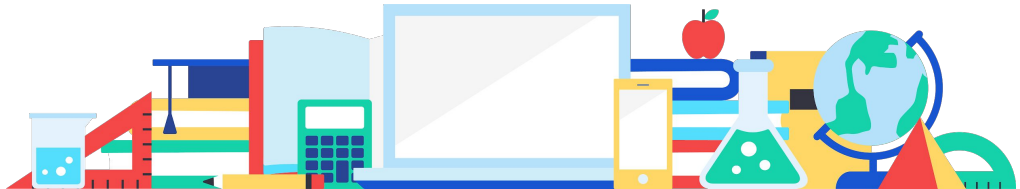

Key Topics

Key Topics Covered in Trigonometry

- Pythagorean Theorem
- Trigonometric Functions
  - Sine, cosine & tangent
  - Solving for sides & angles of right triangles using trigonometric ratios
  - Recipricol 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 trigonmetric 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 forumlas
- 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/
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- https://www.mathsisfun.com/algebra/trigonometry.html
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- http://jwilson.coe.uga.edu/EMAT6680/Adcock/Adcock6690/RLAInstructUnit1/RLATrigMenu.htm