Regents Review: Algebra 2/Trigonometry

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Here are on-line resources that you can use to prepare for the New York State Regents Integrated Algebra exam. The items are presented in their recommended order.[*]

Review Before and After: ... Regents Examinations

See if you're ready for the test by taking regents exams from past semesters. I recommend you take this test to get an idea of how prepared you are and where you need work, then go back and keep practicing with different versions of the exam as you progress through the test preparation process.
http://www.nysedregents.org/a2trig/home.html

1. Regents Exam Prep Center: Algebra 2/Trigonometry

Test prep materials from New York State. After taking the practice exam, work through the materials on this page - focusing on those topics that you think you need the most help with.
http://www.regentsprep.org/Regents/math/algtrig/math-algtrig.htm

2. Khan Academy: Algebra & Trigonometry

If there's any particular area that you are feeling unsure of, then go to the Khan Academy website and look for videos on that particular topic. Khan Academy videos are laid out a little differently than the New York State math standards so you'll find Algebra 2/Trigonometry topics divided up between the *Algebra, Trigonometry & Pre-Calc* and *Probability & Statistics* pages.

Algebra: https://www.khanacademy.org/math/algebra

Trigonometry & Pre-Calc: https://www.khanacademy.org/math/trigonometry

Probability & Statistics: https://www.khanacademy.org/math/probability

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[*]   A note to parents: Although we have created these resources to aid students who are preparing for Regents Exams, we strongly discourage any parent from thinking that these resources alone can take the place of a personal tutor. A strong student who already has excellent grades can prepare for an exam with review materials alone. A student who is struggling usually requires individual instruction to be able to catch up on materials that they've fallen behind on over the course of a semester. No collection of web resources or online-apps can ever replace a professional tutor who can offer one-on-one instruction.

3. Public Domain and Open Source textbooks

These are high-quality textbooks that students can use without charge. These books may be read in your browser, or downloaded as PDF files. Please note when looking at older textbooks, what's now called *Coordinate Geometry* was called *Analytic Geometry* in the first half of the 20th Century.

A School Algebra by Emerson White

You may recognize this textbook recommendation from the Integrated Algebra handout. I consider this to be one of the best Algebra textbooks of all time. After looking at the regentsprep.org website you can use this book for help with *Operations*, *Equations & Inequalities*, and *Variables & Expressions*.

Read in Browser:
http://archive.org/stream/aschoolalgebrad00whitgoog#page/n5/mode/2up

PDF Download:
https://ia600307.us.archive.org/22/items/aschoolalgebrad00whitgoog/aschoolalgebrad00whitgoog.pdf

Plane & Spherical Trigonometry by G.A. Wentworth & D.E. Smith

This book provides a very thorough description of trigonometric functions and triangle measurements.

Read in browser:
http://archive.org/stream/planesphericaltr00wentrich#page/n5/mode/2up

PDF Download:
https://ia700500.us.archive.org/15/items/planesphericaltr00wentrich/planesphericaltr00wentrich.pdf

Collaborative Statistics by Barbara Illowsky, PhD and Susan Dean

This is an on-line textbook from the Connextions Learning program at Rice University. The Statistics and Probability topics covered in Algebra 2/Trigonometry are covered in the first 3 chapters of this textbook.

Read in browser:
http://cnx.org/content/col10522/latest

PDF Download:
http://cnx.org/content/col10522/1.40/pdf