Math Supplement for License Study

The following Web links are a compilation of on-line resources organized by topic. Students can use these materials in any order and at any time to review math concepts needed for exam preparation.

Many of the tutorials are part of the "Interactive Mathematics" Web site (http://www.intmath.com) - a free, on-line system of tutorials. The system begins with basic number concepts and progresses all the way through introductory calculus. The lessons referenced here are those of most use to a student of radio electronics. Basic Numbers & Formulas Order of Operations - http://www.intmath.com/Numbers/3_Order-of-operations.php Powers, Roots, and Radicals - http://www.intmath.com/Numbers/4_Powers-roots-radicals.php Scientific Notation - http://www.intmath.com/Numbers/6_Scientific-notation.php Ratios and Proportions (including , pi) - http://www.intmath.com/Numbers/7_Ratio-proportion.php Geometric Formulas - http://www.equationsheet.com/sheets/Equations-4.html Tables of Conversion Factors - http://en.wikipedia.org/wiki/Conversion_of_units Metric System Metric System Overview - http://en.wikipedia.org/wiki/Metric_system Metric System Tutorial - http://www.arrl.org/FandES/tbp/radio-lab/RLH%20Unit%203%20Lesson%20%233.1.doc

Conversion of Metric & English Units

- http://www.m-w.com/mw/table/metricsy.htm

- http://en.wikipedia.org/wiki/Metric_yardstick

Fractions

Equivalent Fractions - http://www.intmath.com/Factoring-fractions/5_Equivalent-fractions.php Multiplication and Division - http://www.intmath.com/Factoring-fractions/6_Multiplication-division-fractions.php Adding and Subtracting - http://www.intmath.com/Factoring-fractions/7_Addition-subtraction-fractions.php Equations Involving Fractions - http://www.intmath.com/Factoring-fractions/8_Equations-involving-fractions.php Basic Algebra - http://www.intmath.com/Basic-algebra/Basic-algebra-intro.php Graphs

Basic Graphs - http://www.intmath.com/Functions-and-graphs/Functions-graphs-intro.php

Polar Coordinates - http://www.intmath.com/Plane-analytic-geometry/7_Polar-coordinates.php

Exponents & Radicals - http://www.intmath.com/Exponents-radicals/Exponent-radical.php

 $\label{eq:exponential-logarithmic-functions-http://www.intmath.com/Exponential-logarithmic-functions/Exponential-log-functions-intro.php$

Decibels - http://www.arrl.org/hrlm/PowerAndDec.pdf and http://www.ac6v.com/db.htm Trigonometry

Basic Trig Functions - http://www.intmath.com/Trigonometric-functions/Trig-functions-intro.php Graphs of Trig Functions - http://www.intmath.com/Trigonometric-graphs/Trigo-graph-intro.php Complex Numbers - http://www.intmath.com/Complex-numbers/imaginary-numbers-intro.php