

## Recommended Self-Study Materials

Below are the recommended study materials for the Quantitative Skills Diagnostic. We strongly suggest that you immediately begin to study and/or review this material in preparation for the MBA program.

### Online Tutorials:

- There are two **optional** online mathematics tutorials; one in Algebra and one in Calculus.
- To access the online tutorials, please register at <https://cb.hbsp.harvard.edu/cbmp/import/ptos/36551827>. You will be required to create a login name on the website before you are able to access the tutorials. The tutorials are available as downloads for a small fee.
- For technical issues please contact: [techhelp@hbsp.harvard.edu](mailto:techhelp@hbsp.harvard.edu).

### Algebra II for Dummies by Mary Jane Sterling

The book can be found either online and/or at most major bookstores.

- Book Description: *Algebra II For Dummies* is the fun and easy way to get a handle on this subject and solve even the trickiest algebra problems. This friendly guide shows you how to get up to speed on exponential functions, laws of logarithms, conic sections, matrices, and other advanced algebra concepts.
- Purchase Information: Most major bookstores or online at Amazon.com, eBooks.com, and BookFinder.com

## Topics Covered in the Quantitative Skills/Math Diagnostic

For the economics, statistics, and finance core courses, you will need to be proficient in:

- Data Relations (Equalities and inequalities, absolute value, ratios and fractions, summation notation)
- Functions & Graphs (linear functions, nonlinear functions, summation notation)
- Systems of Equations
- Exponents (the laws of exponents, quadratic formula)
- Logarithms (compound interest and e, exponential growth, natural logarithms)
- Familiarity with basic calculus, at the level of taking derivatives of polynomial expressions and using first-order conditions to determine maxima and minima