**Math 1B:**

Textbook & ALEKS Software Bundle:

MILLER, ALEKS 360 11-week Access Card for PRECALCULUS 1 2017

(ISBN 9781259723308)

The textbook is correlated within ALEKS.

The ALEKS syllabus breaking up the content below can be found [here](https://drive.google.com/file/d/16spEEOB4syjhnlo6f0sl-Pt9XItcE5aJ/view?usp=sharing).

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| **SECTION** | **TOPIC** |
| R.1 | Sets and the Real Number Line |
| R.2 | Exponents and Radicals |
| R.3 | Polynomials and Factoring |
| R.4 | Rational Expressions and More Operations on Radicals |
| R.5 | Equations with Real Solutions |
| R.6 | Complex Numbers and More Quadratic Equations |
| R.7 | Applications of Equations |
| R.8 | Linear, Compound, and Absolute Value Inequalities |
| 1.3 | Functions and Relations |
| 1.4 | Linear Equations in Two Variables and Linear Functions |
| 1.5 | Applications of Linear Equations and Modeling |
| 1.6 | Transformations of Graphs |
| 1.7 | Analyzing Graphs of Functions and Piecewise-Defined Functions |
| 1.8 | Algebra of Functions and Function Composition |
| 2.1 | Quadratic Functions and Applications |
| 2.6 | Polynomial and Rational Inequalities |
| 3.1 | Inverse Functions |
|  | **Midterm Exam** |
| 3.2 | Exponential Functions |
| 3.3 | Logarithmic Functions |
| 3.4 | Properties of Logarithms |
| 3.5 | Exponential and Logarithmic Equations and Applications |
| 3.6 | Modeling with Exponential and Logarithmic Functions |
| 4.1 | Angles and Their Measure |
| 4.2 | Trigonometric Functions Defined on the Unit Circle |
| 4.3 | Right Triangle Trigonometry |
| 4.4 | Trigonometric Functions of Any Angle |
| 4.5 | Graphs of Sine and Cosine Functions |
| 4.7 | Inverse Trigonometric Functions |
| 5.1 | Fundamental Trigonometric Identities |
| 5.2 | Sum and Difference Formulas |
| 5.3 | Double-Angle, Power-Reducing, and Half-Angle Formulas |
| 5.5 | Trigonometric Equations |
| 6.1 | Applications of Right Triangles |
| 6.2 | The Law of Sines |
| 6.3 | The Law of Cosines |
|  | **Final Exam** |