

To see where your strengths and weaknesses lie, it is *highly* recommended that you familiarize yourself with Diagnostic Test A and B in the beginning of your textbook. This is one of the **FIRST** things you should start pecking away at. Mastery of this material is directly tied to mastery of the new material in this course. The Stewart's Algebra Review and Stewart's Analytic Geometry Review have written solutions to their exercises. Scroll past the "Answers" and you'll see the "Solutions" segment.

Diagnostic Test A – Algebra – begins on page *xxiv* in the text. Below is a concordance between the Diagnostic Test questions and similar problems in [Stewart's Algebra Review](#), a document that may be found at the following URL:

http://www.stewartcalculus.com/data/CALCULUS%206E/upfiles/6e_reviewofalgebra.pdf

Diagnostic Test A	Algebra Review
#s 1, 2 – Exponents and Radicals	#s 77 – 100
# 3 – Multiplication of Expressions	#s 1 – 16, 73 – 76
# 4 – Factoring Polynomials	#s 29 – 48
# 5 – Simplifying Rational Expressions	#s 49 – 54
# 6 – Rationalizing Fractions containing Radicals	#s 101 – 108
# 7 – Completing the Square	#s 55 – 60
# 8 – Solving Equations (Radical, Polynomial, Absolute Value)	#s 61 – 68, 147, 148
# 9 – Solving Inequalities	#s 127 – 146, 149 – 156
#10 – Common Mistakes, Miscellaneous	#s 109 – 116

So the idea is to use [Stewart's Algebra Review](#) to help you get through Diagnostic Test A.

Diagnostic Test B – Analytic Geometry – begins on page *xxxvi* in the text. Below is a concordance between the Diagnostic Test questions and similar problems in [Stewart's Analytic Geometry Review](#). This Review may be found at the following URL:

http://www.stewartcalculus.com/data/CALCULUS%206E/upfiles/6e_reviewofanalgeom.pdf

Diagnostic Test B	Analytic Geometry Review
# 1 – Equation of a Line	#s 11 – 24
# 2 – Equation of a Circle	#s 37, 38
# 3 – Equation of a Circle	#s 39, 40
# 4 – Miscellaneous lines, circles, distance, slope	#s 1 – 6, 11 – 24, 41 – 45,
# 5 – Sketching Regions in the Plane	#s 29 – 36

So the idea is to use [Stewart's Analytic Geometry Review](#) to help you get through Diagnostic Test B. Mastery of Diagnostic Tests is necessary to mastery of the calculus we will be learning this semester.