

Test Design Blueprint

Date _____

Pre-Calculus120234010-12

Course Title

Course Number

Grade(s)

Big Idea/Domain/Strand/Standard	Standard Code	Percent of Test Based on Time Devoted to Standard	Number of Test Questions
Prove Polynomial Identities	MAFS.912.A-APR.3.4	1.67%	1
Apply Binomial Theorem	MAFS.912.A-APR.3.5	1.67%	1
Polynomial Long Division	MAFS.912.A-APR.3.6	1.67%	1
Operations on Rational Expressions	MAFS.912.A-APR.3.7	1.67%	1
Estimate Limits with Graphs/Tables	MAFS.912.C.1.1	3.3%	2
Continuity	MAFS.912.C.1.10	1.67%	1
Identify Discontinuity Types	MAFS.912.C.1.11	1.67%	1
Intermediate Value Theorem	MAFS.912.C.1.12	1.67%	1
Extreme Value Theorem	MAFS.912.C.1.13	3.3%	2
Find Limits by Subtraction	MAFS.912.C.1.2	1.67%	1
Find Limits of Sums, Products	MAFS.912.C.1.3	1.67%	1
Limits of Rational Functions Where Undefined	MAFS.912.C.1.4	1.67%	1
One-sided Limits	MAFS.912.C.1.5	1.67%	1
Continuity in Terms of Limits	MAFS.912.C.1.6	1.67%	1
Building Functions	MAFS.912.F-BF.1.1	3.3%	2
Inverse Functions	MAFS.912.F-BF.2.4	3.3%	2
Radian	MAFS.912.F-TF.1.1	5%	3
Unit Circle	MAFS.912.F-TF.1.2	5%	3
Trig Functions and Triangles	MAFS.912.F-TF.1.3	5%	3
Unit Circle: Odd, Even, Periodicity	MAFS.912.F-TF.1.4	5%	3
Matching Trig to Data	MAFS.912.F-TF.2.5	1.67%	1
One-to-One Trig Functions	MAFS.912.F-TF.2.6	1.67%	1
Solving Trig Equations: Technology and Modeling	MAFS.912.F-TF.2.7	1.67%	1
Pythagorean Identity	MAFS.912.F-TF.3.8	3.3%	2

Big Idea/Domain/Strand/Standard	Standard Code	Percent of Test Based on Time Devoted to Standard	Number of Test Questions
Addition, Subtraction, Half, Double (Sine, Cosine, Tangent)	MAFS.912.F-TF.3.9	1.67%	1
Equation of a Circle: Complete Square	MAFS.912.G-GPE.1.1	1.67%	1
Parabola Given Directrix and Focus	MAFS.912.G-GPE.1.2	1.67%	1
Ellipses and Hyperbolas	MAFS.912.G-GPE.1.3	1.67%	1
Right Triangle Trig	MAFS.912.G-SRT.3.8	3.3%	2
Law of Sines and Cosines	MAFS.912.G-SRT.4.10	3.3%	2
LoS and LoC Applied Problems	MAFS.912.G-SRT.4.11	3.3%	2
Area of a Triangle	MAFS.912.G-SRT.4.9	1.67%	1
Complex Conjugates, Moduli, Quotients	MAFS.912.N-CN.2.4	1.67%	1
Complex Plane	MAFS.912.N-CN.2.4	1.67%	1
Adding, Subtracting, Multiplying Complex Numbers	MAFS.912.N-CN.2.4	1.67%	1
Fundamental Theorem of Algebra	MAFS.912.N-CN.3.9	1.67%	1
Vectors	MAFS.912.N-VM.1.1	1.67%	1
Component Vectors	MAFS.912.N-VM.1.2	3.3%	2
Vector Quantities	MAFS.912.N-VM.1.3	3.3%	2
Vector Addition, Subtraction	MAFS.912.N-VM.2.4	3.3%	2
Scalar Multiplication	MAFS.912.N-VM.2.5	1.67%	1