

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Rational Expressions	<ul style="list-style-type: none"> • Reducing rational expressions • Multiplying rational expressions • Dividing rational expressions • Adding or subtracting rational expressions that have the same denominator • Adding or subtracting rational expressions that have different denominators • Simplifying complex fractions • Simplifying complex rational expressions • Solving fractional equations 	<ul style="list-style-type: none"> • Quizzes • Unit test
The Irrational Numbers and the Real Numbers	<ul style="list-style-type: none"> • Completing the real-number line • Graphing solution sets involving one variable on a number line • Absolute-value equations • Absolute-value inequalities • Roots and radicals • Simplifying a radical • Adding and subtracting radicals • Multiplying radicals with the same index • Dividing radicals with the same index • Rationalizing a denominator containing a radical • The quadratic formula and quadratic equations with real roots • Solving radical equations 	<ul style="list-style-type: none"> • Quizzes • Unit test
The Complex Numbers	<ul style="list-style-type: none"> • Imaginary numbers • Complex numbers • Addition and subtraction of complex • Multiplication of complex numbers • Multiplicative inverses and division of complex numbers • Solving quadratic equations with imaginary roots • The nature of the roots of any quadratic equation • Using given conditions to write a quadratic equation • Solution of systems of equations • Quadratic inequalities 	<ul style="list-style-type: none"> • Quizzes • Unit test

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Relations and Functions	<ul style="list-style-type: none">• Relations• Functions• Function notation• Types of functions• Special relations and functions• Composition of functions• Inverse functions under composition	<ul style="list-style-type: none">• Quizzes• Unit test
Exponential Functions	<ul style="list-style-type: none">• Laws of exponents• Exponents that are not positive• Scientific notation on the calculator• Fractional exponents• Exponential functions• Equations with fractional or negative exponents• Exponential equations	<ul style="list-style-type: none">• Quizzes• Unit test
Logarithmic Functions	<ul style="list-style-type: none">• Exponential functions and their inverses• Logarithmic form of an equation• Common logarithms on the calculator• Antilogarithms on the calculator• Applying the product rule• Applying the quotient rule• Applying the power rule• Exponential equations	<ul style="list-style-type: none">• Quizzes• Unit test
Geometry of the Circle	<ul style="list-style-type: none">• Arcs and angles• Arcs and chords• Inscribed angles and their measures• Tangents and secants• Angles formed by tangents, chords, and secants• Measures of chords, tangent segments, secant segment	<ul style="list-style-type: none">• Quizzes• Unit test

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Trigonometric Functions	<ul style="list-style-type: none"> • The right triangle • Angles as rotations • Function values of special angles • Quadrantal angles and the unit circle • Trigonometric functions involving angle measures to the nearest minute and the nearest degree on the calculator • Finding reference angles • Finding the remaining trigonometric function values of any angle when one function value is known • Cofunctions • Radian measure • Trigonometric functions involving radian measure • The reciprocal trigonometric functions • The Pythagorean identities 	<ul style="list-style-type: none"> • Quizzes • Unit test
Algebra of Trig Functions		<ul style="list-style-type: none"> • Quizzes • Unit test
Trigonometric Graphs	<ul style="list-style-type: none"> • Graph of $y = \sin x$ • Graph of $y = \cos x$ • Amplitude • period and frequency • Sketching sine and cosine curves • Graph of $y = \tan x$ • Reflection over the line $y = x$ (sin, cos, and tan) • Inverse trigonometric functions (sin, cos, and tan) 	<ul style="list-style-type: none"> • Quizzes • Unit test
Trigonometric Applications	<ul style="list-style-type: none"> • The Law of Cosines • Using the Law of Cosines to find angle measure • Area of a triangle • The Law of Sines • The ambiguous case • Forces • Solving triangles 	<ul style="list-style-type: none"> • Quizzes • Unit test

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Trigonometric Equations and Identities	<ul style="list-style-type: none"> • Basic trigonometric identities • Proving trigonometric identities • First-degree trigonometric equations • Second-degree trigonometric equations • Equations involving more than one function • Cosine of the difference of two angle measures • Cosine of the sum of two angle measures • Sine of the sum or difference of angle measures • Tangent of the sum or difference of angle measures • Function values of double angles • Function values of half angles • Equations involving double angles 	<ul style="list-style-type: none"> • Quizzes • Unit test
Statistics	<ul style="list-style-type: none"> • The summation symbol • Measures of central tendency • Measures of dispersion: the range • The standard deviation • Grouped data • Normal distribution 	<ul style="list-style-type: none"> • Quizzes • Unit test
Probability and the Binomial Theorem	<ul style="list-style-type: none"> • Permutations, combinations, probability (Review) • Probability with two outcomes • At least and at most • The binomial theorem 	<ul style="list-style-type: none"> • Quizzes • Unit test
Functions and Transformation Geometry	<ul style="list-style-type: none"> • Review • Transformations of the plane as functions • Compositions and symmetries • More compositions with transformations • Isometries, orientation and other properties 	<ul style="list-style-type: none"> • Quizzes • Unit test