Instructional Flow – Unit 3 – Trigonometric Identities

5.1	Fundamental Identities
	 reciprocal, quotient, Pythagorean, cofunction, and odd-even
	 simplification of trigonometric expressions
	solution of trigonometric equations
5.2	Proving Trigonometric Identities
	 proving identities
	confirmation of non-identities
5.3	Sum and Difference Identities
	• sine, cosine, and tangent of a sum or difference
	• sums of sinusoids
5.4	Multiple-Angle Identities
	• double-angle
	• half-angle
	• solution of trigonometric equations
5.5	The Law of Sines
	• derivation
	• solution of triangles (AAS, ASA, SSA: including the ambiguous case)
	• applications
5.6	The Law of Cosines
	• derivation
	• solution of triangles (SAS, SSS)
	• area of a triangle
	applications