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


