- Section 4.5, 4.6: Graphing trigonometric functions

    – Graphing arbitrary trigonometric functions

- Section 4.7: Inverse trigonometric functions

    – Domain, range, graph.
    – Compositions of trig functions and inverse trig functions (Example 6, p. 595).
    – Writing inverse as an algebraic expression (Example 9, p597).

- Section 4.8: Applications of trigonometric functions

    – "Solving" a right triangle.
    – Simple harmonic motion.

- Section 5.1: Verifying trigonometric identities

    – Don't do circular reasoning.

- Section 5.2, 5.3: Sum and difference formulae, other formulae

    – Using the formulae to compute exact values for sine and cosine.
    – The half-angle formula: dealing with $\pm$

- Section 5.5: Trigonometric equations

    – Solving for solutions in a given interval like $[0, 2\pi)$ or all possible solutions.
    – Using identities if necessary to solve a trigonometric equation.

- Section 6.1, 6.2: Law of sines, law of cosines

    – Application of law of sines: dealing with the ambiguous case.
    – Situations where the law of cosines is necessary and using the law of cosines.