- Section 3.1 - Exponential functions

  1. Definition: Domain, range, asymptote, graph, transformation.
  2. Compound interest problems.

- Section 3.2 - Logarithmic functions

  1. Definition: Inverse of exponential function. Domain, range, asymptote, graph, transformation.
  2. Computing log by hand for specific values.

- Section 3.3 - Properties of the logarithm

  1. Various rules for expanding and contracting log expressions.
  2. Change of base formula and using the calculator to compute logs.

- Section 3.4 - Exponential and logarithm equations

  1. Solving both exponential and logarithmic equations.
  2. Remember: you can always "take the log" of both sides or raise both sides to a specific power.

- Section 3.5 - Exponential growth and decay

  1. Exponential growth: interest, population, etc. Rate of growth.
  2. Exponential decay: radioactive elements, temperature, etc. Rate of decay.
  3. The logistic model & working with exponentials in general inside models.

- Section 4.1 - Angles and radians

  1. Definition of radians and conversion between degrees and radians.
  2. Standard form of an angle.
  3. Coterminal angles.
  4. Working with angular speed.

- Section 4.2 - Trigonometric functions

  1. Definition & values for specific special angles.
  2. The unit circle.
  3. Function properties: periodic, odd/even. Positive/negative as it pertains to the unit circle.

- Section 4.3 - Right triangles

  1. The special triangles, both of them.
  2. Cofunction identities (p.529)
  3. Using the trigonometric functions to answer questions.

- Section 4.4 - Trigonometric functions of any angle

  1. Working with trigonometric functions on any right triangle or coordinate.
  2. Reference angles.