SAT Crash Couse: Math Outline

Math Process

I. MAKE IT TO THE GRID SECTION!
- a. Two question types; multiple choice followed by grid
    - i. Each type goes from easiest to hardest
        1. Do the easy and medium on multiple choice; then, when they seem hard, jump to the grid section and answer the easy and medium questions on that section
        2. Work on the hard grid questions, then return to the multiple choice questions and work on the hard questions there

II. Plug-in your answer choices

III. If given a graph or a table, plug-in points from the graph or data from the table into any equation(s) you are given

IV. Use your answers to get the anwer
- a. See what your answer options are and work from there
- b. BYON: Bring Your Own Numbers

Math Content

I. System of Equations
   a. Solve using Substitution or Elimination
   b. Solve using Double Elimination
   c. "No Solutions"
   d. "Infinite Solutions"

II. Quadratics
   a. Factor to find the solutions/zeroes/x-intercepts
   b. Find the vertex using either midpoint of zeroes or $-\dfrac{b}{2a}$
   c. Find the y-intercept
   d. Quadratic Formula

III. Exponent Rules

IV. Exponential Growth/Decay

V. Geometry/Trigonometry
   a. Right triangles
      i. Sine, Cosine, Tangent
      ii. 3-4-5 and 5-12-13
      iii. 30°-60°-90° and 45°-45°-90°
      iv. $\text{Sin } x° = \text{Cos } (90 - x)°$
   b. Radians
   c. Equation for graphing a circle

VI. Probability and Statistics
   a. Standard Deviation
   b. Box Plots