Math Mid-Term Exam Outline - 68 Questions Total

- ☐ No Calculator Section - **11 questions -** Will involve basic arithmetic (Add, Subtract, Multiply, and Divide).
- ☐ Multiple Choice - **50 questions** - Scantron
    - ☐ **Chapter 2:** An example Multiple Choice is different real numbers (**Properties)**.
- ☐ Open-ended - **7 Problems** - This section is like short answers. There may be questions with more than one part.
    - ☐ **Chapter 2:** An example open-ended question is -n; evaluate when n = - 2. The answer is: **2**
- ☐ **Notes**
    - ☐ Domain - x values
    - ☐ Range - y values
    - ☐ A **function** is for each input there is one output. In a table with x and y values, if there is the same number under x twice, it is not a function. You can't have two outputs for one number (x).
    - ☐ **Square Roots -** The answer is irrational if it is not a perfect square.
    - ☐ **Parallel Lines-** They have the same slope.
    - ☐ If something is x equals (x=), it is always a vertical line.
    - ☐ If something is y equals (y=), it is always a horizontal line
    - ☐ 3 Ways to graph equations
        - ☐ **Slope intercept form** - $y = mx + b$
        - ☐ **A Table** - x in column and y in the other.
        - ☐ **Find the x and y intercepts** - For x intercepts, y is zero and for y intercepts x is zero.