Essential Standards - what students WILL know by passing Integrated 3

- Solve a quadratic using factoring, completing square, and quadratic formula methods. (CH1)
- Write the equation of a parabola given a situation. (CH2)
- Transform parents graphs (shift, stretch cubics, hyperbolas, square root, linear func. etc) (CH2)
- Solve a wide range of equations and systems of equations including equations that have an extraneous solution. **(CH3)**
- Interpret standard deviation. (CH4)
- Know how to use the normal probability density function. (CH4)
- Write the equations of inverses for simple functions by "undoing." (CH5)
- Use logarithms to solve equations, including exponential equations and using the properties of logarithms. (CH7)
- Calculate missing side lengths and areas of non-right triangles (except for the ambiguous case).
 (CH7)
- Determine if a polynomial has real roots, double roots, and/or imaginary roots. (CH8)
- Factor a polynomial of at least degree 3 (using division) and know the relationship between the roots and the factors of a polynomial. **(CH8)**
- Know how the unit circle is built and what the different parts represent. (CH9)
- Be able to convert between Radians and degrees. (CH9)
- Understand the relationship between the graph of sine and cosine to the unit circle. (CH9)
- Be able to \times , \div ,+,and simple rational expressions (CH11)