

**Students enrolling in MATH 1080 should know how to:**

- Graph linear and quadratic functions and describe their attributes (intercepts, slope for lines, vertex for quadratics). Determine algebraic formula for functions given their graphs or verbal descriptions.
- Be able to factor quadratic expressions or decide if they cannot be factored.
- Solve linear equations. Solve quadratic equations using factoring and the quadratic formula.
- Make sense of exponent rules, negative exponents, and rational exponents. Use exponent rules to simplify exponential expressions.

Prior familiarity with square root, exponential and log functions/equations, linear inequalities, completing the square, composition and inverse functions, is useful (because these are covered quickly) but not necessary.