

- SLO 1: Analyze and investigate properties of functions.
- Objective 1a: Synthesize connections between equations of functions and their graphs.
- Objective 1b: Apply transformations to the graphs of functions.
- Objective 1c: Recognize the relationship between a function and its inverse both graphically and algebraically.
- Objective 1d: Apply functions and other algebraic techniques to model real world STEM applications.
- SLO 2: Apply solution techniques to equations and interpret results.
- Objective 2a: Solve equations and applications involving rational, linear, polynomial, radical, absolute value, exponential, and logarithmic equations.
- Objective 2b: Solve systems of equations and inequalities.
- Objective 2c: Apply techniques for determining zeros of polynomials and roots of equations.
- SLO 3: Analyze conic sections.
- Objective 3a: Construct an algebraic representation of the equation of a conic from a graph.
- Objective 3b: Distinguish the differences between algebraic representations of conic sections.
- Objective 3c: Sketch the graph of the equation of a given conic section.
- SLO 4: Investigate sequences and series.
- Objective 4a: Investigate arithmetic and geometric sequences.
- Objective 4b: Use formulas to find the sum of both finite and infinite series.