

Montgomery College
MA 180 Course Outcomes
Fall 2009

Course Functions:
Polynomial Functions
Rational Functions
Exponential and Logarithmic Functions
Trigonometric Functions

#	<i>Outcome: Upon completion of this course/program a student will be able to:</i>
1	Describe and analyze properties of course functions algebraically, verbally, numerically, and graphically
2	Create, recognize, and interpret transformations of course functions and circles algebraically, numerically, verbally and graphically.
3	Develop a mathematical model from a verbal description or data. Apply the mathematical model to solve a problem and interpret the solution.
4	Simplify expressions, verify identities and solve equations, algebraically.
5	Solve and interpret absolute value, rational and polynomial inequalities algebraically and graphically.
6	Combine course functions arithmetically and by composition, and understand the function properties of the newly formed functions.
7	Determine inverse functions and their properties for appropriate course functions.
8	Employ the graphing calculator to evaluate, find common points, zeros, symmetries, relative extrema and intervals of inequality of all course functions and parametric equations.
9	Sketch, by hand, and label significant features on graphs of course functions.