

## Math 201 Placement Exam Content

Students taking the exam should be familiar with the following concepts and topics:

- Factor and simplify polynomial, rational, radical and absolute value expressions.
- Evaluate and simplify expressions with rational exponents.
- Simplify complex fractions.
- Work with function notation and function operations (including compositions).
- Find the domain and range of rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions.
- Determine the inverse of a one-to-one function.
- Graph polynomial, rational, exponential, and logarithmic functions.
- Solve exponential and logarithmic equations.
- Produce and utilize a unit circle.
- Graph all six basic trigonometric functions, including transformations.
- Apply right triangle trigonometry in problem solving.
- Evaluate trigonometric and inverse trigonometric expressions.
- Use fundamental trigonometric identities to simplify expressions.
- Verify trigonometric identities.
- Solve trigonometric equations.