Norwalk Community College
Learning Outcomes for MAT 136 – Intermediate Algebra

After completing Intermediate Algebra, the student should be able to:

- Solve simple and compound linear inequalities and represent the solution using interval notation.
- Graph linear equations and linear functions on the Cartesian plane.
- Determine the slope of a line, and find the equation of a line using given information.
- Solve systems of two linear equations in two variables.
- Convert between standard numbers and scientific notation.
- Use the rules for exponents to simplify exponential expressions, including rational exponents.
- Add, subtract, multiply, divide, and factor polynomials or determine if a polynomial is not factorable over the integers.
- Simplify, add, subtract, multiply, and divide rational expressions.
- Simplify complex fractions.
- Simplify, add, subtract, multiply, and divide expressions containing radicals, including rationalizing the denominator.
- Write square roots of negative numbers as imaginary numbers.
- Solve linear, quadratic, rational, and radical equations.