

KYOTE College Algebra Placement Exam Standards

1. Evaluate algebraic expressions at specified values of their variables using signed numbers, rational exponents, order of operations and parentheses.
2. Add, subtract and multiply polynomials.
3. Simplify algebraic expressions involving integer exponents.
4. Simplify algebraic expressions involving square roots and cube roots.
5. Factor a polynomial in one or more variables by factoring out its greatest common factor. Factor a trinomial. Factor the difference of squares.
6. Add, subtract, multiply and divide rational expressions.
7. Simplify a rational expression.
8. Solve a linear equation.
9. Solve a multivariable equation for one of its variables.
10. Solve a linear inequality in one variable.
11. Solve a quadratic equation.
12. Solve an equation involving a radical, a rational or an absolute value expression.
13. Solve a system of two linear equations in two variables.
14. Solve problems that can be modeled using a linear or quadratic equation or expression.
15. Solve geometry problems using the Pythagorean theorem and the properties of similar triangles.
16. Understand and apply the relationship between the properties of a graph of a line and its equation.
17. Find the intercepts and the graph of a parabola given its equation. Find an equation of a parabola given its graph.
18. Evaluate a function at a number in its domain. Find the domain of a rational function or the square root of a linear function.