

## **KYOTE College Readiness Placement Exam Standards**

- 1.** Evaluate numerical expressions involving signed numbers, positive integer exponents, order of operations and parentheses.
- 2.** Evaluate algebraic expressions at specified values of their variables using signed numbers, positive integer exponents, order of operations and parentheses.
- 3.** Perform arithmetic calculations involving fractions, decimals and percents.
- 4.** Order fractions and decimals on a number line.
- 5.** Solve applied arithmetic problems using appropriate units, including problems involving percentage increase and decrease, rates and proportions.
- 6.** Solve simple geometry problems involving properties of rectangles and triangles.
- 7.** Solve simple coordinate geometry problems.
- 8.** Add and subtract polynomials.
- 9.** Multiply polynomials.
- 10.** Simplify algebraic expressions involving positive and negative integer exponents, and square roots.
- 11.** Factor a polynomial in one or more variables by factoring out its greatest common factor; factor a quadratic polynomial.
- 12.** Add, subtract and multiply simple rational expressions.
- 13.** Simplify a rational expression.
- 14.** Solve a linear equation.
- 15.** Solve a multivariable equation for one of its variables.
- 16.** Use a linear equation to solve a simple word problem.
- 17.** Solve a linear inequality.
- 18.** Find the slope of a line given two points on the line or its equation; find the equation of a line given two points on the line, or a point on the line and the slope of the line.
- 19.** Graph a line given its equation; find the equation of a line given its graph.
- 20.** Solve a quadratic equation by factoring or by using the quadratic formula.
- 21.** Solve a system of two linear equations in two variables.