KYOTE College Readiness Placement 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.