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.