BEMIDJI AREA SCHOOLS

Outcomes in Mathematics – College Algebra

The student will:

- 1. Solve linear equations and inequalities.
- 2. Perform arithmetic operations with complex numbers.
- 3. Graph and solve problems dealing with quadratic equations.
- 4. Understand the concepts of graphing in the Cartesian coordinate system.
- 5. Understand and apply connections between the characteristics of a function and its graph.
- 6. Recognize the affect of various transformations on functions.
- 7. Add, subtract, multiply, divide, and compose functions.
- 8. Find the inverses of functions.
- 9. Divide polynomials.
- 10. Know that a polynomial of degree n has n complex roots and understand the connection between the roots of a polynomial and its factors.
- 11. Demonstrate knowledge of rational functions (graphs and characteristics).
- 12. Solve problems involving direct and indirect variation.
- 13. Solve problems involving exponential and logarithmic functions.
- 14. Understand the graphs and equations of conic sections.
- 15. solve systems of equations in two and three variables.
- 16. Solve problems involving linear inequalities.

July 2014 Page 1 of 1