Student Learning Outcomes

1. Solve linear equations in one variable.
2. Solve formulas for indicated variables.
3. Applications and Modeling with Linear Equations.
4. Solve using the quadratic formula.
5. Solve problems involving quadratic modeling.
6. Solve equations with rational expressions.
7. Solve equations with radical expressions.
8. Solve equations with absolute value expressions.
10. Solve rational inequalities.
11. Solve absolute value inequalities.
12. Find radius, center, domain and range of the circle and graph it.
13. Solve applied problems using distance and midpoint formulas.
15. Find domain and range of the function from the graph.
16. Find domain of the function from the equation.
17. Determine values for which a function is increasing, decreasing and constant.
18. Graph linear functions.
19. Find slope given a description of the line.
20. Given an equation, find slope and sketch the graph.
21. Find and interpret rate of change.
22. Find composition of functions.
23. Analyze graphs of functions using transformations.
24. Graphs quadratic functions and find vertex, axis of symmetry, max, min, domain and range.
25. Solve problems about quadratic models.
26. Decide whether a function is one-to-one.
27. Determine whether functions are inverses of each other.
28. Use graph to find inverse function values.
29. Use the change-of-base theorem.
30. Use the product, quotient and power properties of logarithms.
31. Solve exponential equations.
32. Solve logarithmic equations.
33. Use exponential expressions and functions to model and solve real world situations.
34. Use logarithmic expressions and functions to model and solve real world situations.
35. Set up and solve systems of two equations by substitution, elimination, graphing and Cramer's rule.
36. Set up and solve systems of three equations by various methods.