ALGEBRA 2
Test Description for EQUATIONS AND RATIONAL FUNCTIONS
(Import File: A2.Equations-RatFunc.0708)

SOL Objectives	Number of Items		
	Total	For Mastery	For Partial Mastery
A2.7(1) Solve equations containing rational expressions algebraically and graphically. Use graphing calculators for solving the equations and for confirming algebraic solutions.	5	4	NA
A2.9(3) Find the domain, range, zeros, and inverse of rational functions. The functions will include those that have domains and ranges that are limited and/or discontinuous.	5	4	NA
A2.20 Identify, create, and solve practical problems involving inverse variation and a combination of direct and inverse variations.	6	5	4
	16		

Test Description for EQUATIONS AND RATIONAL FUNCTIONS

SOL Objective	Essential Knowledge and Skills	Item Descriptions	#
A2.7(1) Solve equations containing rational expressions algebraically and graphically. Use graphing calculators for solving the equations and for confirming algebraic solutions.	Solve equations containing rational expressions algebraically and graphically

Identify the solutions to an equation containing a rational expression from a graph

Solve an equation containing rational expressions using a graphing calculator

Check possible solutions to an equation containing rational expressions using a graphing calculator. | Solve rational equation | 154 |
		Recognize equivalent equations	151
		Solve rational equation	152
		Solve rational equation	153
		Solve rational equation with no real solution	155
A2.9(3) Find the domain, range, zeros, and inverse of rational functions. The functions will include those that have domains and ranges that are limited and/or discontinuous**.**	Identify domain, range, zeros and inverse of a rational function presented algebraically or graphically.

Recognize restricted/discontinuous domains and ranges.

Use interchange of variables to find inverse of function.

The graphing calculator will be used as a tool to assist in investigation of functions. | Identify domain of rational function from a graph | 157 |
		Identify range of rational function from a graph	156
		Identify domain of rational function from an equation	159
		Identify range of rational function from an equation	160
		Find inverse of rational function	158