Unit Reflection: Functions, Polynomials, Rationals

Learning Target 	 Success Criteria (What you need to know) 	How well do you know this? (YOU)	Are you sure? (US)
F1: Function Notation	✓ For a function, identify the independent and dependent variables ✓ State the domain and range of a relation ✓ Determine whether a relation is a function using the definition of a function ✓ Determine whether a relation is a function using the vertical line test ✓ Evaluate a function for a given value of the independent variable ✓ Solve an exponential equation, given a value for the independent variable		
F2: Families of Functions	✓ Begin to familiarize yourself with the graphs of the 12 basic functions ✓ Be able to identify a function as being either even or odd by definition or symmetry ✓ Be able to recognize the end behavior of a function		
F3: Transformations of Functions	✓ Know how adding or subtracting a number (inside and outside) affects a function ✓ Know how multiplying or dividing a number (inside and outside) affects a function ✓ Know how multiplying a function by a negative one (inside and out) affects a function ✓ Be able to identify how a function is transformed from the basic function by its equation		
F4: Polynomials	✓ Determine if an expression is a polynomial ✓ Determine the degree of a polynomial ✓ Add and subtract polynomial functions ✓ Multiply polynomial functions		
F4.5: Composition	✓ Find the composition of two polynomial functions ✓ Evaluate the composition of polynomial functions		
F5 & F5.5: Dividing Polynomials	✓ Divide a polynomial function by a first degree polynomial using long division ✓ Divide a polynomial function by a higher order polynomial using long division		

F6: Graphing Polynomials	✓ Be able to identify the end behavior of polynomials based upon degree ✓ Identify even functions using the definition or symmetry ✓ Identify odd functions using the definition or symmetry ✓ Find the x and y intercepts of a polynomial function ✓ Find the maximum or minimum of a quadratic polynomial ✓ Graph a quadratic polynomial		
F7: Zeros of Polynomials	✓ Use the remainder theorem to find the remainder of a polynomial division problem ✓ Sketch a polynomial using it's zeros and end behavior		
F8: Rational Functions	✓ Identify any vertical asymptotes of a rational function ✓ Identify any horizontal asymptotes of a rational function ✓ Sketch a rational function using points and asymptotes		
F9: More Rational Functions	✓ Identify any holes of a rational function ✓ Identify any slant asymptotes of a rational function		

Reflections

Goals