The following is a list of objectives that will be covered on the assessments for this area of study (Polynomial Functions)

Quiz (11 Questions)

- Students will be able to find the quotient of a division problem involving polynomials using the polynomial long division method.
- Students will be able to find the quotient of a division problem involving polynomials using the synthetic division method.
- Students will be able to use the rational zero test to determine all possible rational zeros of a polynomial function.
- Students will be able to use the rational zero test to determine all possible roots of a polynomial equation.
- Students will be able to use Descarte's Rule of Signs to determine the possible number of positive or negative roots of a polynomial equation.
- Students will be able to find all zeros of a polynomial function.
- Students will be able to use the remainder theorem to evaluate the value of functions.

Exam (13 Questions)

The exam for this area of study will cover all of the above objectives, including:

- Student will be able to use the remainder theorem to evaluate the value of functions.
- Student will be able to write a polynomial in completely factored form.
- Student will be able to write a polynomial as a product of factors irreducible over the reals.
- Student will be able to write a polynomial as a product of factors irreducible over the rationals.
- Student will be able to find the equation of a polynomial function that has the given zeros.
- Student will be able to determine if a polynomial function is even, odd or neither.