

STANDARDS

- 9.1 I can classify polynomial expressions and equations.
- 9.2 I can evaluate and simplify polynomial expressions and equations.
- 9.3 I can factor polynomials using a variety of methods (factor theorems, synthetic division, long division, sums and differences of cubes, grouping.)
- 9.4 I can determine the number and type of rational zeroes for a polynomial function.
- 9.5 I can find all rational zeroes of a polynomial function.
- 9.6 I can recognize the connection among zeroes of a polynomial function, x-intercepts, factors of polynomials, and solutions of polynomial equations.
- 9.7 I can use technology to graph a polynomial function and approximate the zeroes, minimum, and maximum.
- 9.8 I can determine the domain and range of a polynomial function.

Can I.....

- Classify polynomials by the number of terms and power.
- Evaluate a polynomial (putting a value in the equation)
- use the quadratic formula
- factor using grouping
- factor using GCF
- factor using sum/difference of cubes
- factor using difference of squares
- factor two binomials
- use synthetic division
- find rational roots using the rational root
- find all roots
- tell by the power how many roots a polynomial can have
- define zeroes of a polynomial function, x-intercepts, factors of polynomials, and solutions of polynomial equations.
- Tell the relationship between zeroes of a polynomial function, x-intercepts, factors of polynomials, and solutions of polynomial equations.
- Use a calculator to graph a polynomial
- find key feature from a graph
- find the domain and range of the polynomial