



WINDOW ROCK HIGH SCHOOL

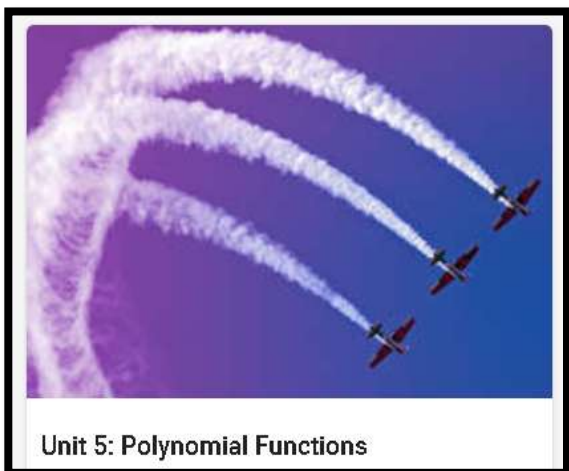
APEX ALGEBRA 2 – QUARTER 2

October 13 – December 18, 2020

Course Description/Objectives:

Algebra II is designed for students who need to extend the algebraic skills begun in Algebra I in a more practical and less theoretical setting. The course studies real numbers, equations, inequalities, algebraic fractions, fractional and negative exponents, radicals, and the complex numbers. Students are introduced to the concept of a function in general and specifically to polynomial, rational, exponential, logarithmic, and trigonometric functions. Probability and statistics are also included in the course.

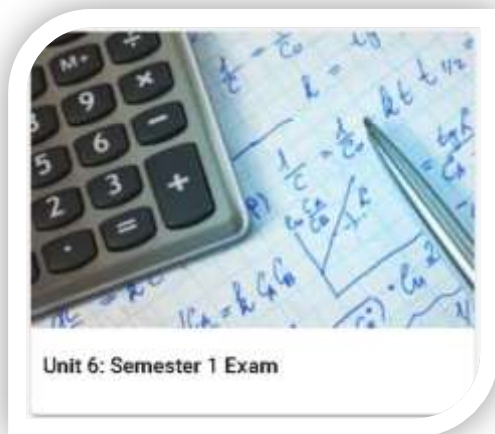
UNIT	LESSONS
 <p>Unit 2: Functions and Relations</p>	<ul style="list-style-type: none">▶ 2.1 Functions▶ 2.2 Graphing Functions▶ 2.3 Transforming Functions▶ 2.4 Combining Functions▶ 2.6 Functions and Relations Wrap-Up <p>For quarter 2, we will start with lesson 2.2 “Graphing Functions” since 2.1 were in quarter 1.</p>
 <p>Unit 3: Quadratic Functions</p>	<ul style="list-style-type: none">▼ 3 Quadratic Functions<ul style="list-style-type: none">▶ 3.1 Factoring $x^2 + bx + c$▶ 3.2 Factoring $ax^2 + bx + c$▶ 3.3 Special Cases▶ 3.4 Solving Quadratic Equations▶ 3.5 Completing the Square▶ 3.6 The Quadratic Formula▶ 3.7 Graphs of Quadratic Functions▶ 3.8 Imaginary Numbers▶ 3.9 Quadratic Functions Wrap-Up



Unit 5: Polynomial Functions

▼ 5 Polynomial Functions

- ▶ 5.1 Polynomial Basics
- ▶ 5.2 Polynomial Functions
- ▶ 5.3 Synthetic Division
- ▶ 5.4 Factoring Polynomials Completely
- ▶ 5.5 Solving Polynomial Equations
- ▶ 5.6 Graphing Polynomial Functions
- ▶ 5.7 Polynomial Identities
- ▶ 5.8 Binomial Theorem
- ▶ 5.9 Transformations of Polynomial Functions
- ▶ 5.10 Polynomial Functions Wrap-Up



Unit 6: Semester 1 Exam

- End of Second Quarter
- End of Semester 1
- Quarter 2 Exam – APEX Online (December 14-16, 2020)