

Grade 9

Distance Learning Module 1: Introduction to Polynomials

Week of: March 30, 2020 - April 3, 2020

Mathematics: Algebra I, Level 2 - Modified from [Unit F - Beyond Straight Lines](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: polynomials can be classified by degree and number of terms, polynomials are closed under the operations of addition, subtraction, and multiplication

Vocabulary: monomial, binomial, trinomial, constant, linear, quadratic, cubic, polynomial, standard form, term

Skills: adding and subtracting polynomials, multiplying monomials and polynomials

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Introduction to Distance Learning and review of combining like terms	Khan Academy: Intro to combining like terms (video) Simplifying expressions (video) Combining like terms with distribution (video)	Combining like terms with distribution (Khan practice)
Tuesday: Classifying polynomials by degree & number of terms	Video Tutorial (YouTube) - students take notes	Picture of student notes Kuta Practice Worksheet and Student Answer Sheet
Wednesday: adding/subtracting polynomials & standard form	Khan Academy: Polynomials intro (video) Adding polynomials (video) The parts of polynomial expressions Algebra (video)	Corresponding practice in Khan Academy Polynomials intro (practice)

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday: multiplying monomials by polynomials (& standard form)	Khan Academy: <u>Multiplying monomials by polynomials (video)</u> <u>Multiplying monomials by polynomials review (article)</u>	<u>Multiply monomials (Khan practice)</u> <u>Multiply monomials by polynomials (Khan practice)</u> <u>Multiplying Monomials by Polynomials worksheet and Answer sheet</u>
Friday: Combining operations (multiplying and adding/subtracting) & standard form	Optional live review lesson on Zoom. Review notes and videos from the week, as needed.	<u>Practice worksheet and Answer sheet</u>

Week criteria for success (attach student checklists or rubrics):

By the end of this module, students will be able to:

- convert polynomials to standard form
- name polynomials by degree and number of terms
- add and subtract polynomials
- multiply a monomial by a polynomial

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, Kuta Software worksheets, office hours

remediation material for exponent properties: https://youtu.be/zM_p7tfWvLU