

Perform arithmetic operations on polynomials. Focus on polynomial expressions that simplify to forms that are linear or quadratic in a positive integer power of x (Standard A.APR.1)	
Standard A.APR.1: Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	
Concepts and Skills to Master	
<ul style="list-style-type: none"> • Add, subtract and multiply polynomials. • Understand closure of polynomials for addition, subtraction, and multiplication (for example, extend properties of arithmetic to polynomial arithmetic). 	
Related Standards: Current Course	Related Standards: Future Courses
II.A.SSE.1 , II.N.RN.3 , II.N.CN.1 , II.N.CN.2 , II.F.BF.1b	III.N.CN.8 , III.A.SSE.1 , III.A.APR.2 , III.A.APR.3 , III.A.APR.4 , III.A.APR.5 , III.A.APR.6 , III.A.APR.7 , P.N.CN.3, P.N.CN.5, P.N.CN.10

Support for Teachers

Critical Background Knowledge
<ul style="list-style-type: none"> • Apply properties of operations as strategies to add, subtract (1.OA.3, 2.OA.2) and multiply (3.OA.5) using the associative, commutative and distributive properties; extend to rational numbers (7.NS) • Apply properties of operations (to combine terms) and generate equivalent expressions (6.EE.3, I.A.REI.5) • Combine function types using arithmetic operations (I.F.BF.1b)
Academic Vocabulary
closure
Resources
Curriculum Resources : https://www.uen.org/core/core.do?courseNum=5620#71472