

Algebra One – CP2

Spring Semester Exam Topics

Chapter 7

- Solve and graph single inequalities
- Solve and graph compound inequalities
- Solve absolute value inequalities
- Graph inequalities on a coordinate plane

Chapter 9(1-3)

- Simplify monomials using exponent rules
- Change numbers from scientific notation to decimal notation and vice versa
- Multiply and divide numbers in scientific notation

Chapter 9(4-8)

- Add and subtract polynomials
- Write polynomials in descending or ascending order
- Find the degree of a polynomial
- Use the distributive property to multiply a monomial and a polynomial
- Solve polynomial equations
- Multiply using the FOIL method
- Multiply a binomial and a trinomial or two trinomials

Chapter 10

- State if a number is prime or composite
- Prime factorization
- Factor binomials using greatest common factor or difference of squares
- Factor trinomials
- Factor polynomials by grouping
- Solving equations by factoring

Chapter 12(1-4)

- Simplify rational expressions
- Find the exclude values of a rational expression
- Multiply and divide rational expressions
- Polynomial long division

Chapter 12(5-8)

- Determine the least common denominator
- Add and subtract rational expression with like and unlike denominators
- Solve rational equations by multiplying all terms by the LCD

Chapter 13

- Simplify square root by taking perfect square factors out of the radicand
- Multiply expressions containing square roots
- Add and subtract square roots
- Use the Pythagorean Theorem to find the missing side of a right triangle.
- Determine if the side lengths given form a right triangle.