### Course Name: MAT 101: Intermediate Algebra FA17 - A - F
### Course Code: 9JYVH-ADCYM

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**Ch.1-The Real Numbers** (65 topics, due on 09/19/2017)

**Section 1.1** (4 topics)
- Ordering integers
- Square root of a perfect square
- Identifying numbers as integers or non-integers
- Identifying numbers as rational or irrational

**Section 1.2** (20 topics)
- Integer addition: Problem type 1
- Integer addition: Problem type 2
- Integer subtraction: Problem type 1
- Integer subtraction: Problem type 2
- Integer subtraction: Problem type 3
- Addition and subtraction with 3 integers
- Word problem with addition or subtraction of integers
- Integer multiplication and division
- Multiplication of 3 or 4 integers
- Division involving zero
- Least common multiple of 2 numbers
- Signed fraction subtraction involving double negation
- Signed fraction multiplication: Advanced
- Signed fraction division
- Signed decimal addition and subtraction
- Signed decimal multiplication
- Signed decimal division
Section 1.3  (26 topics)

- Properties of addition
- Introduction to properties of multiplication
- Properties of real numbers

Section 1.4  (11 topics)

- Order of operations with integers
- Evaluating a linear expression: Integer multiplication with addition or subtraction
- Evaluating a quadratic expression: Integers
- Combining like terms: Integer coefficients
- Distributive property: Whole number coefficients
- Distributive property: Integer coefficients
- Using distribution and combining like terms to simplify: Univariate
- Using distribution with double negation and combining like terms to simplify: Multivariate
- Combining like terms in a quadratic expression
- Perimeter of a square or a rectangle
- Area of a square or a rectangle

Chapter 1 Supplementary Topics  (4 topics)

- Operations with absolute value: Problem type 2
- Order of operations with integers and exponents
- Multiplying numbers written in scientific notation: Advanced
- Dividing numbers written in scientific notation: Advanced

Ch.2-Linear Equations and Inequalities  (88 topics, due on 10/05/2017)

Section 2.1  (21 topics)

- Additive property of equality with decimals
- Additive property of equality with integers
- Additive property of equality with signed fractions
- Multiplicative property of equality with whole numbers
- Multiplicative property of equality with fractions
- Multiplicative property of equality with decimals
- Multiplicative property of equality with integers
- Multiplicative property of equality with signed fractions
- Identifying solutions to a linear equation in one variable: Two-step equations
- Additive property of equality with a negative coefficient
- Solving a two-step equation with integers
- Solving a multi-step equation given in fractional form
• Solving a linear equation with several occurrences of the variable: Variables on the same side
• Solving a linear equation with several occurrences of the variable: Variables on both sides
• Solving a linear equation with several occurrences of the variable: Variables on the same side and distribution
• Solving a linear equation with several occurrences of the variable: Variables on both sides and distribution
• Solving a linear equation with several occurrences of the variable: Fractional forms with monomial numerators
• Solving a two-step equation with signed fractions
• Solving a linear equation with several occurrences of the variable: Variables on both sides and fractional numerators
• Solving a linear equation with several occurrences of the variable: Fractional forms with binomial numerators
• Solving equations with zero, one, or infinitely many solutions

Section 2.2  (14 topics)

• Circumference of a circle
• Solving for a variable in terms of other variables using addition or subtraction: Basic
• Solving for a variable in terms of other variables using addition or subtraction: Advanced
• Solving for a variable in terms of other variables using multiplication or division: Basic
• Solving for a variable in terms of other variables using multiplication or division: Advanced
• Solving for a variable in terms of other variables using addition or subtraction with division
• Solving for a variable inside parentheses in terms of other variables
• Solving for a variable in terms of other variables in a linear equation with fractions
• Writing a one-step expression for a real-world situation
• Translating a phrase into a one-step expression
• Translating a phrase into a two-step expression
• Translating a sentence into a one-step equation
• Translating a sentence into a multi-step equation
• Writing a multi-step equation for a real-world situation

Section 2.3  (7 topics*)

• Translating a sentence into a one-step equation
• Translating a sentence into a multi-step equation
• Solving a fraction word problem using a linear equation of the form Ax = B
• Solving a word problem with two unknowns using a linear equation
• Solving a decimal word problem using a linear equation of the form Ax + B = C
• Finding the side length of a rectangle given its perimeter or area
• Finding the perimeter or area of a rectangle given one of these values

Section 2.4  (14 topics)

• Solving a value mixture problem using a linear equation
• Solving a one-step word problem using the formula d = rt
• Solving a distance, rate, time problem using a linear equation
• Finding the final amount given the original amount and a percentage increase or decrease
• Finding the sale price given the original price and percent discount
• Finding the sale price without a calculator given the original price and percent discount
• Finding the total cost including tax or markup
• Finding the original amount given the result of a percentage increase or decrease
• Finding the percentage increase or decrease: Basic
• Finding the percentage increase or decrease: Advanced
• Computing a percent mixture
• Solving a percent mixture problem using a linear equation
• Finding a percentage of a total amount in a circle graph
• Finding simple interest without a calculator

Section 2.5  (21 topics)

• Translating a sentence by using an inequality symbol
• Translating a sentence into a one-step inequality
• Writing an inequality for a real-world situation
• Graphing a linear inequality on the number line
• Translating a sentence into a compound inequality
• Graphing a compound inequality on the number line
• Set builder and interval notation
• Identifying solutions to a two-step linear inequality in one variable
• Additive property of inequality with integers
• Additive property of inequality with signed fractions
• Multiplicative property of inequality with integers
• Multiplicative property of inequality with signed fractions
• Solving a two-step linear inequality: Problem type 1
• Solving a two-step linear inequality: Problem type 2
• Solving a two-step linear inequality with a fractional coefficient
• Solving a linear inequality with multiple occurrences of the variable: Problem type 1
• Solving a linear inequality with multiple occurrences of the variable: Problem type 2
• Solving a linear inequality with multiple occurrences of the variable: Problem type 3
• Solving a compound linear inequality: Graph solution, basic
• Solving a compound linear inequality: Interval notation
• Solving a decimal word problem using a two-step linear inequality

Section 2.6 (10 topics)

• Solving an absolute value equation: Problem type 1
• Solving an absolute value equation: Problem type 2
• Solving an absolute value equation: Problem type 3
• Solving an absolute value equation: Problem type 4
• Solving an absolute value equation of the form |ax+b| = |cx+d|
• Solving an absolute value inequality: Problem type 1
• Solving an absolute value inequality: Problem type 2
• Solving an absolute value inequality: Problem type 3
• Solving an absolute value inequality: Problem type 4
• Solving an absolute value inequality: Problem type 5

Chapter 2 Supplementary Topics (3 topics)

• Set builder notation
• Union and intersection of finite sets
• Union and intersection of intervals

(*) Some topics in this section are also covered in a previous section of this Objective. Topics are only counted once towards the total number of topics for this Objective.

Ch.3-Graphs and Functions (60 topics, due on 10/19/2017)

Section 3.1 (14 topics)

• Reading a point in the coordinate plane
• Plotting a point in the coordinate plane
• Table for a linear equation
• Identifying solutions to a linear equation in two variables
• Finding a solution to a linear equation in two variables
• Graphing a linear equation of the form y = mx
• Graphing a line given its equation in slope-intercept form: Integer slope
• Graphing a line given its equation in slope-intercept form: Fractional slope
• Graphing a line given its equation in standard form
• Graphing a vertical or horizontal line
• Finding x- and y-intercepts given the graph of a line on a grid
• Graphing a line given its x- and y-intercepts
• Graphing a line by first finding its x- and y-intercepts
• Graphing an absolute value equation of the form y = A|x|

Section 3.2 (10 topics)

• Classifying slopes given graphs of lines
• Finding slope given the graph of a line on a grid
• Finding slope given two points on the line
• Finding the slope of horizontal and vertical lines
• Finding the coordinate that yields a given slope
• Graphing a line given its slope and y-intercept
• Graphing a line through a given point with a given slope
• Finding the slope and y-intercept of a line given its equation in the form y = mx + b
• Finding the slope and y-intercept of a line given its equation in the form Ax + By = C
• Midpoint of a line segment in the plane

Section 3.3 (13 topics)

• Writing an equation of a line given its slope and y-intercept
• Writing an equation and graphing a line given its slope and y-intercept
• Writing an equation in slope-intercept form given the slope and a point
• Writing an equation of a line given the y-intercept and another point
• Writing the equation of the line through two given points
• Writing the equations of vertical and horizontal lines through a given point
• Finding slopes of lines parallel and perpendicular to a line given in slope-intercept form
Finding slopes of lines parallel and perpendicular to a line given in the form \( Ax + By = C \)
Writing equations of lines parallel and perpendicular to a given line through a point
Writing and evaluating a function that models a real-world situation: Advanced
Writing an equation and drawing its graph to model a real-world situation: Advanced
Interpreting the parameters of a linear function that models a real-world situation
Application problem with a linear function: Finding a coordinate given two points

Section 3.4  (4 topics)

- Identifying solutions to a linear inequality in two variables
- Graphing a linear inequality in the plane: Vertical or horizontal line
- Graphing a linear inequality in the plane: Slope-intercept form
- Graphing a linear inequality in the plane: Standard form

Section 3.5  (11 topics)

- Identifying independent and dependent variables from equations or real-world situations
- Identifying functions from relations
- Vertical line test
- Domain and range from ordered pairs
- Table for a linear function
- Evaluating functions: Linear and quadratic or cubic
- Finding outputs of a two-step function with decimals that models a real-world situation: Function notation
- Domain and range from the graph of a discrete relation
- Domain and range from the graph of a continuous function
- Domain and range from the graph of a piecewise function
- Evaluating a rational function: Problem type 1

Section 3.6  (2 topics)

- Identifying linear equations: Advanced
- Graphing a function of the form \( f(x) = ax + b \): Integer slope

Chapter 3 Supplementary Topics  (6 topics)

- Identifying linear functions given ordered pairs
- Graphing a line by first finding its slope and \( y \)-intercept
- Application problem with a linear function: Finding a coordinate given the slope and a point
- Finding inputs and outputs of a two-step function that models a real-world situation: Function notation
- Finding inputs and outputs of a function from its graph
- Graphing an integer function and finding its range for a given domain

Ch.4-Solving Systems of Linear Equations and Inequalities  (17 topics, due on 11/05/2017)

Section 4.1  (7 topics)

- Identifying solutions to a system of linear equations
- Classifying systems of linear equations from graphs
- Graphically solving a system of linear equations
- Solving a system of linear equations using substitution
- Solving a system of linear equations using elimination with addition
- Solving a system of linear equations using elimination with multiplication and addition
- Solving a 2x2 system of linear equations that is inconsistent or consistent dependent

Section 4.3  (7 topics)

- Solving a word problem involving a sum and another basic relationship using a system of linear equations
- Solving a word problem using a system of linear equations of the form \( Ax + By = C \)
- Solving a word problem using a system of linear equations of the form \( y = mx + b \)
- Solving a value mixture problem using a system of linear equations
- Solving a percent mixture problem using a system of linear equations
- Solving a distance, rate, time problem using a system of linear equations
- Solving a tax rate or interest rate problem using a system of linear equations

Section 4.4  (3 topics)

- Interpreting the graphs of two functions
- Graphing a system of two linear inequalities: Advanced
- Graphing a system of two linear inequalities: Basic
Section 5.1 (5 topics)

- Degree and leading coefficient of a univariate polynomial
- Degree of a multivariate polynomial
- Simplifying a sum or difference of two univariate polynomials
- Simplifying a sum or difference of three univariate polynomials
- Simplifying a sum or difference of multivariate polynomials

Section 5.2 (13 topics)

- Multiplying a univariate polynomial by a monomial with a positive coefficient
- Multiplying a univariate polynomial by a monomial with a negative coefficient
- Multiplying a multivariate polynomial by a monomial
- Multiplying binomials with leading coefficients of 1
- Multiplying binomials with leading coefficients greater than 1
- Multiplying binomials in two variables
- Multiplying conjugate binomials: Univariate
- Multiplying conjugate binomials: Multivariate
- Squaring a binomial: Univariate
- Squaring a binomial: Multivariate
- Multiplying binomials with negative coefficients
- Multiplication involving binomials and trinomials in one variable
- Multiplication involving binomials and trinomials in two variables

Section 5.3 (7 topics)

- Factoring a linear binomial
- Greatest common factor of three univariate monomials
- Greatest common factor of two multivariate monomials
- Factoring out a monomial from a polynomial: Univariate
- Factoring out a binomial from a polynomial: GCF factoring, basic
- Factoring a univariate polynomial by grouping: Problem type 1
- Factoring a univariate polynomial by grouping: Problem type 2

Section 5.4 (9 topics)

- Factoring out a monomial from a polynomial: Multivariate
- Factoring a quadratic with leading coefficient 1
- Factoring a quadratic in two variables with leading coefficient 1
- Factoring out a constant before factoring a quadratic
- Factoring a quadratic with leading coefficient greater than 1: Problem type 1
- Factoring a quadratic with leading coefficient greater than 1: Problem type 2
- Factoring a quadratic with leading coefficient greater than 1: Problem type 3
- Factoring a quadratic by the ac-method
- Factoring a quadratic in two variables with leading coefficient greater than 1

Section 5.5 (7 topics)

- Factoring a perfect square trinomial with leading coefficient 1
- Factoring a perfect square trinomial with leading coefficient greater than 1
- Factoring a perfect square trinomial in two variables
- Factoring a difference of squares in one variable: Basic
- Factoring a difference of squares in one variable: Advanced
- Factoring a difference of squares in two variables
- Factoring a sum or difference of two cubes

Section 5.6 (5 topics*)

- Factoring out a constant before factoring a quadratic
- Factoring a polynomial involving a GCF and a difference of squares: Univariate
- Factoring a polynomial involving a GCF and a difference of squares: Multivariate
- Factoring a product of a quadratic trinomial and a monomial
- Factoring with repeated use of the difference of squares formula

Section 5.7 (6 topics)

- Solving an equation written in factored form
- Finding the roots of a quadratic equation of the form $ax^2 + bx = 0$
- Finding the roots of a quadratic equation with leading coefficient 1
- Finding the roots of a quadratic equation with leading coefficient greater than 1
- Solving a quadratic equation needing simplification
- Solving a word problem using a quadratic equation with rational roots

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Ch. 6 - Rational Expressions  (80 topics, due on 11/22/2017)

Section 6.1  (12 topics)

- Simplifying a ratio of multivariate monomials: Advanced
- Restriction on a variable in a denominator: Linear
- Restriction on a variable in a denominator: Quadratic
- Simplifying a ratio of factored polynomials: Linear factors
- Simplifying a ratio of polynomials using GCF factoring
- Simplifying a ratio of linear polynomials: 1, -1, and no simplification
- Simplifying a ratio of polynomials by factoring a quadratic with leading coefficient 1
- Simplifying a ratio of polynomials: Problem type 1
- Simplifying a ratio of polynomials: Problem type 2
- Simplifying a ratio of polynomials: Problem type 3
- Writing equivalent rational expressions with monomial denominators
- Writing equivalent rational expressions with polynomial denominators

Section 6.2  (8 topics)

- Multiplying rational expressions involving multivariate monomials
- Multiplying rational expressions made up of linear expressions
- Multiplying rational expressions involving quadratics with leading coefficients of 1
- Multiplying rational expressions involving quadratics with leading coefficients greater than 1
- Dividing rational expressions involving multivariate monomials
- Dividing rational expressions involving linear expressions
- Dividing rational expressions involving quadratics with leading coefficients of 1
- Dividing rational expressions involving multivariate quadratics

Section 6.3  (18 topics)

- Finding the LCD of rational expressions with linear denominators: Relatively prime
- Finding the LCD of rational expressions with linear denominators: Common factors
- Finding the LCD of rational expressions with quadratic denominators
- Writing equivalent rational expressions involving opposite factors
- Adding rational expressions with common denominators and monomial numerators
- Adding rational expressions with common denominators and binomial numerators
- Adding rational expressions with common denominators and GCF factoring
- Adding rational expressions with common denominators and quadratic factoring
- Adding rational expressions with different denominators and a single occurrence of a variable
- Adding rational expressions with denominators ax and bx: Basic
- Adding rational expressions with denominators ax and bx: Advanced
- Adding rational expressions with denominators ax^n and bx^m
- Adding rational expressions with multivariate monomial denominators: Basic
- Adding rational expressions with linear denominators without common factors: Basic
- Adding rational expressions with linear denominators without common factors: Advanced
- Adding rational expressions with linear denominators with common factors: Basic
- Adding rational expressions with denominators ax-b and b-ax
- Adding rational expressions involving different quadratic denominators

Section 6.4  (11 topics)

- Complex fraction without variables: Problem type 1
- Complex fraction without variables: Problem type 2
- Complex fraction involving univariate monomials
- Complex fraction involving multivariate monomials
- Complex fraction: GCF factoring
- Complex fraction: Quadratic factoring
- Complex fraction made of sums involving rational expressions: Problem type 1
- Complex fraction made of sums involving rational expressions: Problem type 2
- Complex fraction made of sums involving rational expressions: Problem type 3
- Complex fraction made of sums involving rational expressions: Multivariate
- Complex fraction with negative exponents: Problem type 1
Section 6.5 (4 topics)
- Dividing a polynomial by a monomial: Univariate
- Dividing a polynomial by a monomial: Multivariate
- Polynomial long division: Problem type 1
- Polynomial long division: Problem type 2

Section 6.6 (14 topics)
- Solving a proportion of the form $x/a = b/c$
- Solving a proportion of the form $(x+a)/b = c/d$
- Solving a proportion of the form $a/(x+b) = c/x$
- Solving a rational equation that simplifies to linear: Denominator $x$
- Solving a rational equation that simplifies to linear: Denominator $x+a$
- Solving a rational equation that simplifies to linear: Denominators $a$, $x$, or $ax$
- Solving a rational equation that simplifies to linear: Denominators $ax$ and $bx$
- Solving a rational equation that simplifies to linear: Like binomial denominators
- Solving a rational equation that simplifies to linear: Unlike binomial denominators
- Solving a rational equation that simplifies to linear: Factorable quadratic denominator
- Solving a rational equation that simplifies to quadratic: Denominator $x$
- Solving a rational equation that simplifies to quadratic: Binomial denominators, constant numerators
- Solving a rational equation that simplifies to quadratic: Binomial denominators and numerators
- Word problem on proportions: Problem type 1

Section 6.7 (4 topics)
- Solving for a variable in terms of other variables in a rational equation: Problem type 1
- Solving for a variable in terms of other variables in a rational equation: Problem type 2
- Word problem involving multiple rates
- Solving a work problem using a rational equation

Section 6.8 (5 topics)
- Writing a direct variation equation
- Word problem on direct variation
- Writing an inverse variation equation
- Word problem on inverse variation
- Word problem on combined variation

Chapter 6 Supplementary Topics (4 topics)
- Simplifying a ratio of multivariate polynomials
- Adding rational expressions with multivariate monomial denominators: Advanced
- Solving a rational equation that simplifies to quadratic: Proportional form, basic
- Word problem on inverse proportions

Ch.7-Rational Exponents and Radicals (68 topics, due on 12/05/2017)

Section 7.1 (16 topics)
- Square root of a perfect square
- Finding all square roots of a number
- Square root of a rational perfect square
- Square roots of perfect squares with signs
- Cube root of an integer
- Finding $n^{th}$ roots of perfect $n^{th}$ powers with signs
- Finding the $n^{th}$ root of a perfect $n^{th}$ power fraction
- Converting between radical form and exponent form
- Rational exponents: Unit fraction exponents and whole number bases
- Rational exponents: Unit fraction exponents and bases involving signs
- Rational exponents: Non-unit fraction exponent with a whole number base
- Rational exponents: Negative exponents and fractional bases
- Rational exponents: Product rule
- Rational exponents: Quotient rule
- Rational exponents: Products and quotients with negative exponents
- Rational exponents: Power of a power rule

Section 7.2 (23 topics*)
- Square roots of integers raised to even exponents
Section 7.3  (16 topics)

- Introduction to square root addition or subtraction
- Square root addition or subtraction
- Square root addition or subtraction with three terms
- Introduction to simplifying a sum or difference of radical expressions: Univariate
- Simplifying a sum or difference of radical expressions: Univariate
- Square root multiplication: Basic
- Simplifying a product of radical expressions: Univariate
- Simplifying a product of radical expressions: Multivariate
- Introduction to simplifying a product involving square roots using the distributive property
- Simplifying a product involving square roots using the distributive property: Basic
- Special products of radical expressions: Conjugates and squaring
- Simplifying a quotient involving a sum or difference with a square root
- Rationalizing a denominator using conjugates: Integer numerator
- Rationalizing a denominator using conjugates: Square root in numerator
- Rationalizing a denominator using conjugates: Variable in denominator

Section 7.4  (8 topics)

- Introduction to solving a radical equation
- Solving a radical equation that simplifies to a linear equation: One radical, basic
- Solving a radical equation that simplifies to a linear equation: One radical, advanced
- Solving a radical equation that simplifies to a linear equation: Two radicals
- Solving a radical equation with two radicals that simplifies to \( \sqrt{x} = a \)
- Solving a radical equation that simplifies to a quadratic equation: One radical, basic
- Solving a radical equation that simplifies to a quadratic equation: One radical, advanced
- Solving a radical equation that simplifies to a quadratic equation: Two radicals

Section 7.5  (6 topics)

- Using \( i \) to rewrite square roots of negative numbers
- Simplifying a product and quotient involving square roots of negative numbers
- Adding or subtracting complex numbers
- Multiplying complex numbers
- Dividing complex numbers
- Simplifying a power of \( i \)

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Ch.8-Quadratic Equations and Inequalities  (13 topics, due on 12/11/2017)

Section 8.1  (5 topics)

- Solving an equation of the form \( x^2 = a \) using the square root property
- Solving a quadratic equation using the square root property: Exact answers, basic
- Solving a quadratic equation using the square root property: Exact answers, advanced
- Completing the square
- Solving a quadratic equation by completing the square: Exact answers

**Section 8.2** (3 topics)

- Applying the quadratic formula: Exact answers
- Solving a quadratic equation with complex roots
- Solving a word problem using a quadratic equation with irrational roots

**Section 8.3** (2 topics)

- Writing a quadratic equation given the roots and the leading coefficient
- Discriminant of a quadratic equation

**Section 8.5** (1 topic)

- Domain of a rational function: Excluded values

**Chapter 8 Supplementary Topics** (2 topics)

- Solving an equation using the odd-root property: Problem type 1
- Solving an equation using the odd-root property: Problem type 2

**Ch.9-Quadratic Functions and the Conic Sections** (9 topics, due on 12/11/2017)

**Section 9.1** (8 topics)

- Graphing a function of the form \( f(x) = ax^2 \)
- Graphing a function of the form \( f(x) = ax^2 + c \)
- Finding the vertex, intercepts, and axis of symmetry from the graph of a parabola
- Graphing a parabola of the form \( y = (x-h)^2 + k \)
- Graphing a parabola of the form \( y = x^2 + bx + c \)
- Graphing a parabola of the form \( y = ax^2 + bx + c \): Integer coefficients
- Finding the x-intercept(s) and the vertex of a parabola
- Finding the maximum or minimum of a quadratic function

**Section 9.2** (1 topic)

- Distance between two points in the plane: Exact answers