CHAPTER 3

Linear Functions

Linear Functions

3.1 Rate of Change and Slope

Content Objective:

Students will find rates of change from tables.
Students will find the slope of the line

3.2 Direct Variation

Content Objective:

Students will write and graph an equation of a direct variation

3.3 Slope-Intercept Form

Content Objective:

Students will write linear equations using slope-intercept form.
Students will graph linear equations in slope-intercept form.

3.4 Point-Slope Form

Content Objective:

Students will write and graph linear equations using point-slope form.

3.5 Standard Form

Content Objective:
Students will graph linear equations using intercepts.
Students will write equations in Standard Form.

3.6 Slope of Parallel and Perpendicular Lines

Content Objective:

Students will determine whether lines are parallel, perpendicular, or neither.
Students will determine if the graphs of two lines are parallel or perpendicular without graphing the lines.

3.7 Graphing Absolute Value Functions

Content Objective:

Students will graph an absolute value function.
Students will translate the graph of an absolute value function.

CHAPTER 4

Systems of Equations

and

Inequalities

Systems of Equations and Inequalities

4.1 Solving System by Graphing

Content Objective:
Students will solve a system of linear equations by graphing.

4.2 Solving System Using Substitution

Content Objective:
Students will solve system of equations using substitution.

4.3 Solving System Using Elimination

Content Objective:
Students will solve a system by subtracting or adding to eliminate a variable.

4.4 Applications of Linear Systems

Content Objective:
Students will choose the best method for solving a system of linear equation.

4.5 Linear Inequalities

Content Objective:
Students will Graph linear inequalities in two variables
Students will use linear inequalities when modeling real-world situations.

4.6 System of Linear Inequalities

 Content Objective:

Students will solve systems of linear inequalities by graphing.
Students will model rea-world situations using system of linear inequalities.

CHAPTER 5

Exponential

And

Radical Functions

Exponential and Radical Functions

5.1 Zero and Negative Exponent

Content Objective:

Students will simplify expressions involving zero and negative exponents

5.2 Exponential Functions

Content Objective:

Students will evaluate and graph exponential functions.
Students will graph and exponential model with a vertical shift.

5.3 Comparing Linear and Exponential Functions

Content Objective:

Students will compare properties of linear and exponential functions.
Students will investigate rates of change

5.4 Exponential Growth and Decay

Content Objective:

Students will model exponential growth and decay functions.

5.5 Solving Exponential Equations

Content Objective: Students will solve exponential equations.

5.6 Geometric Sequences

Content Objective:

Students will write and use recursive and explicit formulas for geometric sequences.

5.7 Combining Functions

Content Objective:

Students will add, subtract, multiply, and divide linear and exponential functions

5.8 Simplifying Radicals

Content Objective:

Students will simplify radicals involving products and quotients

5.9 Radical and Piecewise Functions

Content Objective:
Students will understand properties of radical and piecewise functions