MATH 081 Videos

Chapter 1: Real Numbers and Algebraic Expressions

1.1 Integers

1.1 Intro to Adding and Subtracting Signed Numbers

1.1 Adding Signed Numbers: Money Method

1.1 Adding Signed Numbers: Number Line Method

1.1 Adding Signed Numbers: Signed Chip Method

1.1 Adding Signed Numbers: SSS/DDD

1.1 Subtracting Signed Numbers Part 1

1.1 Subtracting Signed Numbers Part 2

1.2 Rational Numbers

1.3 Algebraic Expressions

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Chapter 2: Algebraic Equations and Inequalities

2.1 One and Two Step Equations

2.2 Multi-step Equations

2.3 Inequalities

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Chapter 3: Formulas, Proportions and Percent

3.1 Formulas

3.1 Evaluate formulas

3.1 Solving formulas for a specified variable (Level 1)

3.1 Solving formulas for a specified variable (Level 2)

3.1 Solving formulas for a specified variable (Level 3)

3.2 Proportions

3.2 Define Proportions and determine if a proportion is true or false.

3.2 Solve proportions for an unknown.

3.2 Solve unit conversion problems using proportions.

3.2 Solving metric unit conversion problems using proportions

3.3 Percent

3.3 Convert among fractions, decimals, and percent Part 1

3.3 Convert among fractions, decimals, and percent Part 2 (more examples)

3.3 Rewrite percent problems as algebraic equations and solve percent problems for the unknown whole, part, or percent.

3.3 Solve application word problems involving percent Part 1

3.3 Solve application word problems involving percent Part 2

3.3 Solve financial application word problems involving percent Part 1

3.3 Solve financial application word problems involving percent Part 2

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Chapter 4

4.1 Ordered Pairs and Intercepts

4.1 Write the ordered pair for a given point on a graph and plot the point for a given ordered pair.

4.1 Determine if an ordered pair is a solution of a given equation.

4.1 Determine the unknown coordinate in an ordered pair solution of a given equation.

4.1 Using tables to organize ordered pairs which are solutions to a given equation

4.1 Determine the x-intercept and y-intercept of the graph of a given linear equation.

4.2 Slope of a Line

4.2 Define Slope and determine whether the slope of a graphed line is positive, negative, 0, or undefined.

4.2 Determine the slope of a line given its graph Part 1

4.2 Determine the slope of a line given its graph Part 2

4.2 Calculate the slope of a line given the ordered pairs of two points on the line.

4.3 Equation of a Line

4.3 Write the equation of horizontal and vertical lines

4.3 Write the equation of a line given its graph.

4.3 Write the equation of a line given its slope and y-intercept, Write the equation of a line given its slope and one point on the line, and Write the equation of a line given two points on the line.

4.3 Write a linear equation to represent a real world application involving rate of change

Graph of a Line

4.4 Graph horizontal and vertical lines given the equation of the line.

4.4 Graph linear equations given in slope-intercept form Part 1

4.4 Graphing linear equations given in slope-intercept form Part 2

4.4 Graph linear equations in standard form by rewriting them in slope-intercept form

4.4 Graph linear equations in standard form by determining and plotting the x and y intercepts

4.4 Solve systems of linear equations by graphing

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