

Topic: Unit 6 : Systems of Linear Equations and Inequalities

Days: 15

Subject(s):

Grade(s):

Key Learning:

Solving system of equations and inequalities by graphing and algebraic manipulation then apply that knowledge to solve real world problems.



Unit Essential Question(s): How do graphing or using algebraic manipulation of a system of equations or inequalities provides solutions to real world applications?

Concept:
Graphing system of linear equations and inequalities

Concept:
Algebraic methods of solving linear equations

Concept:
Real world application of linear system and linear inequalities

Lesson Essential Question(s):
How do you graph a system of equations or inequalities and what types of solutions are possible by examining the graphs? (A)

How do you graph a system of inequalities and approximate the solution of linear equations by identifying the acceptable regions and boundaries? (A)

Lesson Essential Question(s):
How do you determine the solution to a system of equations by algebraic substitution when it is not possible to graph the situation? (A)

How do you determine the solution to a system of equations by algebraic eliminations (adding and subtracting) when it is not possible to graph the situation? (A)

How do you determine the solution to a system of equations by algebraic multiplication when it is not possible to graph the situation? (A)

Lesson Essential Question(s):
How do you determine the best method of solving a system of linear equations or a system of inequalities? (A)

Vocabulary:
systems of equation, consistant, independent, dependent, inconsistent, system of inequalities

Vocabulary:
substitution, elimination,

Vocabulary:
systems of equalities, system of inequalities

Additional Information:
Sections 6.1, 6.2, 6.3, 6.4, 6.5, 6.8 omit 6.6, 6.7

Attached Document(s):

Vocab Report for Topic: Unit 6 : Systems of Linear Equations and Inequalities
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Concept: Graphing system of linear equations and inequalities

systems of equation, consistant, independent, dependent, inconsistent, system of inequalities -

Concept: Algebraic methods of solving linear equations

substitution, elimination, -

Concept: Real world application of linear system and linear inequalities

systems of equalities, system of inequalities -