

Concepts to know Exam 1

Chapter 1 and Chapter 2 and section 3.2

- Lines
 - Intercepts
 - Point Slope Formula
 - Finding equations of lines
 - Graphing
 - Linear Modeling
- Cost, Revenue, and Profit Equations
- Break even Values
- supply and demand functions
- equilibrium point
- quadratic functions
 - vertex
 - open up/down
 - maximum/minimum
 - revenue function from the demand function
- Solving systems of equations
 - Substitution method
 - Subtraction/addition method
 - Gauss-Jordan Method
 - rref
 - Matrices
 - Different types of answers
 - * No solution
 - * Exactly one solution
 - * Infinite solutions.
 - Written in parametric form.
 - Placing restriction on the parameter.
- Row reduced form
- Matrix Operations
 - Addition
 - Subtraction
 - Multiplication
 - Equality
- Scalar multiplication
- Transpose
- Translating word problems to systems of equations.
- Translating word problems to linear programming problem.
- Any additional topic discussed in class.