

Exam 2 Outline

College Algebra

To create an outline, you should look through class notes, homework and activities to find the types of problems covered from each section. Find 2 problems of each type (usually from our textbook) and solve them. If you have trouble, get help **before** the day before the exam.

Equation Solving

- Apply distributivity to polynomial equations
- Convert equations involving division of polynomials to polynomial equations
- Simplify fractions including polynomials
- Simplify fractions involving roots

2.4 Function

- Determine if a given table describe a function
- Evaluate functions at different inputs
- Find the domain of a function
- Interpret word problems in terms of functions

2.5 Graphs of Functions

- Vertical line test
- Sketch functions
- Step functions
- Piecewise functions

2.6 Transformation of Functions

- Translate function graphs up, down, right and left
- Translate function equations up, down, right and left
- Reflect function graphs about the x-axis or y-axis
- Reflect function equations about the x-axis or y-axis
- Interpret word problems in terms of translations

2.7 The Algebra of Function

- Add, subtract, multiply and divide functions
- Compose functions (with specific inputs or variables)
- Word problems including compositions

2.8 Inverse Functions

- Check whether two functions are inverses
- Determine if a function is invertible (1-1)
- Find the inverse of an invertible function