

# Exam 4 Information - Math 143 GH

## Spring 2019

Exam 4 will cover the following:

**Reviews:** Exam 4 Review (both versions), and Reviews for Quiz 20 and 22

**Lecture Notes:** (all posted for Classes 1-31)

Simplifying Algebraic Expressions	Right Triangle Trigonometry	Law of Sines - Part 1
Review of Equations	Trig Function Values of Famous Angles	Inverse Functions
Fractions and Decimals	Circles - Part 1	Trigonometric Equations 3
The Real Numbers - Part 1	Complex Fractions	Vectors 1
The Zero Product Rule	Writing Equations of Lines	Law of Sines - Part 2
Factoring A	Simplifying Trig Expressions	Graphing Trigonometric Functions
Radical Expressions - Part 1	$n$ th Root of a Number	Graphing Polynomials - 1
Graphing Lines	Rational Exponents	Vectors 2
Exponents 1	Trigonometric Identities 1	Solving Triangles
Completing the Square 1, 2, 3	Basic Functions	Induction
Factoring 1	Logarithms 1	Exponential Equations
$n$ th Root of a Number	Basic Exp. and Log. Equations	Trigonometric Equations 4
Introduction to Construction	Computing Trigonometric Expressions	Inverse Trigonometric Functions
Triangle Inequality	Rotational Angles	Division of Polynomials
The Pythagorean Theorem	Summation 1	Complex Numbers
Smallest Value of a Quadratic Expression	Circles - Part 2	Summation 2
Solving systems of equations	Domain of Functions	Reciprocal of a Graph
Linear Word Problems	Unit Circle Definitions	Graphing Polynomials - 2
Graph of a Parabola - 1 and Practice	Radical Equations	Trigonometric Equations 5
Completing the Square - Part 4	Logarithms 1.5	Discontinuities of Rational Functions
Interval Notation	Arithmetic and Geometric Means	Remainder Theorem
Graphical Solutions	Logarithms 2	Half-Angle Formulas
Radical Expressions - Part 2	Radian Measure	Inverse Trigonometric Expressions
Integer Exponents	Arcs and Sectors in Circles	Vectors 3
Similar Triangles	Symmetries of the Unit Circle	Transformations on Graphs
Linear Inequalities	Trigonometric Equations 1	Vectors
Combinatorics 1	Trigonometric Identities 2	Product-Sum identities
Functions	Rational Inequalities	Graphing Trig Functions
Non-linear Systems	Graphing Trigonometric Functions	Graphing Rational Function
Graph of a Parabola - 2	Proof of the Sum Formulas	Polar Form of Complex Numbers
The Quadratic Formula	Compound Angle Identities	
Optimization	Trigonometric Identities 4	
Quadratic Inequalities	Trigonometric Equations 2	