

TEST 2 MATERIAL

MATH 171

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CHAPTER 6

FACTORING

- COMMON FACTOR
- difference of squares
- QUADRATICS
 - Type 1 $x^2 + ax + b$
 - Type 2 $ax^2 + bx + c$
- SUM & difference of cubes

SIMPLIFYING

- Expressing polynomial fractions in lowest terms
- Adding / subtracting / multiplying / dividing polynomial fractions

SOLVING

- SOLVING EQUATIONS CONTAINING FRACTIONS
- SOLVING QUADRATICS USING
 - (a) FACTORING
 - (b) QUADRATIC EQUATION

CHAPTER 7

Graphing A
QUADRATIC

- Identify vertex
- Find x, y intercepts
- Determine if graph is facing upwards/downwards

CHAPTER 13

- Graph exponential functions
- Solve exponential word problems
 - Doubling time
 - Half life
 - Interest
 - Newton's Law of Heating/Cooling

LOGARITHMS

- Evaluate log of any base on your calculator
- Simplify logarithmic equations
- Express a number in scientific notation using log
- Solve exponential & logarithmic equations