

List of Topics not part of Math 130

The following topics, from algebra, should be assumed and not covered or reviewed very briefly.

- Fractions, rational expressions and equations involving rationals.
- Rationalizing the denominator.
- Proper cancellation in fractions.
- Scientific notation.
- Absolute value expressions and equations.
- Solving formulas for variable letters.
- Operations with polynomials, including special products and squares of binomials.
- Word problems: algebraic representation and subsequent solution.
- Rules of exponents and their application, including simplifying fractional exponents.
- Order of operations.
- Finding the additive inverse of an algebraic expression.

The following topics are not considered part of the syllabus of Math 130.

Solving simultaneous linear equations in three variables.

Solving linear and quadratic inequalities.

Zeros of polynomial functions of higher degree; graphing polynomial functions of degree three or higher.

Graphing rational functions.

Exponential functions expressed in the form $C_0 e^t$. (Cover this briefly if desired.)

Compound interest and continuously compounded interest.

Newton's Law of Cooling.

Double-angle, half-angle, and power-reducing formulas for the tangent.

Product-to-sum and sum-to-product trig identities.

Motion of a spring using trig functions.

The Law of Sines.

Graphing the secant, cosecant, and cotangent functions and their inverses.