

Section 2.2

I. Algebra of Limits

II. Examples (Constant, Identity, Sum, Difference, Product Rules)

Corollary. Limits of Polynomials

III. Examples (Quotient Rule)

A. Manipulations relative to the Provisio

B. Corollary: Limits of Rational Functions

IV. Examples (Algebraic Power Rule)

A. Provisio

V. Limits of Trigonometric Functions

A. Special Limits

a. $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$

b. $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x} = 0$

VI. Sandwich Theorem (Squeeze Rule)