

CALCULUS AB Test Chapter 2

Section 2-1

1. Evaluate limits from a graph

Sections 2-2 and 2-3

1. Compute limits algebraically
 - a. Factoring
 - b. Synthetic division
 - c. Rationalize denominator or numerator
 - d. Complex fractions
 - e. $\sqrt{x^2} = |x| = \begin{cases} x & \text{if } x > 0 \\ -x & \text{if } x < 0 \end{cases}$
 - f. Piecewise functions
 - g. Absolute value functions
 - h. Polynomials
 - i. Rational functions
 - j. Power functions
 - k. Exponential or logarithmic functions
 - l. Approaching infinity or constants
 - m. DNE or $+\infty$ or $-\infty$

Section 2-5

1. Prove a function is continuous at a point
2. Determine interval continuity from a graph
3. Determine continuity of a function
4. Removable discontinuity

Section 2-6

1. Limits of trigonometric functions
2. Continuity of trigonometric functions