

### Finding Limits by Analytic Methods

Knowing the graph of a function only can be misleading if there are holes in the graph of a function. It is possible to find limits using algebraic techniques and limit theorems.

You will learn to analyze limits by the following methods:

#### Methods to Find Limit Limits

1. Direct substitution.
2. Perceptual Limit Theorem.
3. Factor, cancellation techniques. Then go back to step 1.
4. The conjugate method, rationalize the denominator. Then go back to step 1.
5. Specializing limits of  $\lim_{x \rightarrow 0} \frac{e^x}{x}$  or  $\lim_{x \rightarrow 0} \frac{\ln(x)}{x}$  or  $\lim_{x \rightarrow 0} \frac{1}{x}$ .
6. L'Hopital's Rule (presented in Unit 2).

#### Substitution Theorem

If  $f$  is a polynomial function or rational function then  $\lim_{x \rightarrow a} f(x) = f(a)$  provided that if  $f$  is a rational function the value of the denominator does not equal 0.

EX 41: Find each of the following limits analytically using direct substitution.

A. $\lim_{x \rightarrow 2} (3x^2 - 5x + 4)$	B. $\lim_{x \rightarrow 1} \frac{x^2 - 1}{x + 1}$
C. $\lim_{x \rightarrow 0} \frac{1}{x^2}$	D. $\lim_{x \rightarrow 0} \sqrt{x^2 + 1}$
E. $\lim_{x \rightarrow 0} \sin(x)$	F. $\lim_{x \rightarrow 0} \ln(x + 1)$

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### Finding Limits of Functions at Undefined Values

Consider the following cases and what happens when you try to evaluate limits by direct substitution.

EX 42: The Factoring or Cancellation Technique

A. $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 - 2x}$	B. $\lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1}$	C. $\lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1}$
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Graphically, you can see the limits of the function shown at right. Just because a function is undefined at a value of  $x$  doesn't mean that you can't find the limit. Use the graph of the function to determine the value of each limit below.

$$\lim_{x \rightarrow 2} \frac{x^2 - 4}{x^2 - 2x} =$$

$$\lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1} =$$

$$\lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1} =$$



What is the process for finding discontinuities of a rational function from your calculator?

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You can perform the same algebraic analysis to find the limit of the numerator or great denominator and the non-zero denominator, or substitute discontinuities using what we will call the Factoring or Cancellation Technique.

$$\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 + 1} =$$

Notice the simplified expression above and consider the behavior of the function. Analytically there is a non-zero denominator commonly called a.

EX 43: Because the  $x$ -values do not approach one specific value from both sides then the limit does not exist. By using the numerical, graphical, and algebraic techniques together, you can determine the behavior of the simplified function on either side of the vertical asymptote. This is true because the original function and the simplified function agree everywhere except at the.

#### Determining Behavior of a Function Using Two-sided Limits

$\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 + 1}$		$\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 + 1}$	
As $x \rightarrow 0^+$	Simplified Function	As $x \rightarrow 0^-$	Simplified Function
Plot a value:		Plot a value:	
$\lim_{x \rightarrow 0} f(x) =$		$\lim_{x \rightarrow 0} f(x) =$	

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EX 43: The Rationalization Technique or Conjugate Method

A. The graph of  $g(x) = \frac{x^2 - 1}{x^2 + 1}$  is shown below. The technique of rationalization can be used to find the limit.

$$\lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1} =$$



$$B. \lim_{x \rightarrow 0} \frac{x^2 - 1}{x^2 + 1}$$

EX 44: Find each of the following limits analytically. Show your algebraic steps.

A. $\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 + 1} =$	B. $\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 + 1} =$
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# Flamingo Math Answers Logarithm

**Frank Castle**



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Introduction to Logarithms Adrian Harrison,2019-08-02 Introduction to Logarithms This book is a part of Easy mathematics series which was prepared by Adrian Harrison to help students enhance their knowledge of math This series of books include the pre calculus and calculus topics Introduction to logarithms was written for those people who are interested in learning logarithms and do not have necessarily previous knowledge of it This book adopts a simple and practical approach to describe the logarithm and has been prepared for the beginners to help them understand the basic concepts of it There are an explanation examples with solution and working test part which will help you to enhance your knowledge of mathematical thinking DEFINITION PROPERTIES INVERSE OF A LOGARITHM FUNCTION TEST WITH SOLUTIONS WORKBOOK TESTS      **Logarithms and Exponentials Essential Skills Practice Workbook with Answers** Chris McMullen,2020-07-27 Master essential logarithm and exponential skills through helpful explanations instructive examples and plenty of practice exercises with answers Authored by experienced teacher Chris McMullen Ph D this self study math workbook covers logarithms of various bases and natural logarithms the change of base formula logarithm rules like the sum and difference formulas exponential functions hyperbolic functions and their inverses graphs of logarithms exponentials and hyperbolic functions a concise review of exponents in the first chapter Euler s number applications such as population growth continuously compounded interest and radioactive nuclear decays an introduction to complex numbers in the last chapter an optional chapter covering the calculus of logarithms exponentials and hyperbolic functions The author Chris McMullen Ph D has over twenty years of experience teaching math skills to physics students He prepared this workbook of the Improve Your Math Fluency series to share his strategies for working with logarithms and exponentials      Short Logarithmic and Other Tables William Cawthorne Unwin,1897      **Examples for Practice in the Use of Seven-figure**

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