

## Texas Instruments TI-89 Titanium

# Texas Instruments TI-89 Titanium Graphing Calculator User Manual

Model: TI-89 Titanium (89T/TBL/1L1/D)

## INTRODUCTION

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The Texas Instruments TI-89 Titanium is an advanced graphing calculator designed for a wide range of mathematical and scientific applications. It supports functions in algebra, calculus, matrices, and statistics, along with advanced graphing capabilities including 2D, 3D, parametric, polar, and differential-equation graphing. This manual provides instructions for setting up, operating, and maintaining your TI-89 Titanium calculator.



Image: The Texas Instruments TI-89 Titanium Graphing Calculator, displaying its screen and keypad layout.

## PACKAGE CONTENTS

Verify that your package contains the following items:

- TI-89 Titanium calculator
- Slide case
- 3 AAA batteries (for operation)

- 1 USB computer cable
- 1 USB unit-to-unit cable
- Quick reference card



Image: The TI-89 Titanium calculator shown with its included accessories: a slide case, USB cables, and documentation.

## SETUP

### 1. Battery Installation

The TI-89 Titanium requires four AAA batteries for operation. These are typically included with the calculator. To install or replace batteries:

1. Locate the battery compartment cover on the back of the calculator.
2. Slide the cover off.
3. Insert four AAA batteries, ensuring correct polarity (+ and - terminals).
4. Replace the battery compartment cover.

**Note:** Always use fresh batteries for optimal performance. Remove batteries if the calculator will not be used for an extended period.

### 2. Initial Power On

Press the **ON** button located at the bottom left of the keypad to power on the calculator. The display should illuminate, and the home screen will appear.

## OPERATING INSTRUCTIONS

## Basic Operations

The TI-89 Titanium performs standard arithmetic operations. Use the numeric keypad for numbers and the dedicated function keys for addition, subtraction, multiplication, and division.

- **Entering Expressions:** Type your mathematical expression directly on the entry line.
- **Executing Calculations:** Press **ENTER** to evaluate the expression.
- **Clearing the Display:** Press **CLEAR** to clear the current entry line or the history.

## Graphing Functions

The calculator supports various graphing modes:

- **Function Graphing:** Press **Y=** to define functions, then **GRAPH** to view.
- **Parametric Graphing:** Access through the **MODE** menu.
- **Polar Graphing:** Access through the **MODE** menu.
- **Sequence Graphing:** Access through the **MODE** menu.
- **3-D Graphing:** For visualizing three-dimensional functions.
- **Differential-Equation Graphing:** For plotting solutions to differential equations.



Image: The calculator screen showing a graphical representation of a mathematical function.

## Advanced Features

- **Symbolic Manipulation:** Perform algebraic operations on symbolic expressions.
- **Calculus:** Compute derivatives, integrals, limits, and series.
- **Matrices:** Create, edit, and perform operations on matrices (inverse, determinant, transpose, augment, elementary row operations, reduced row echelon form).
- **Statistics:** Access statistical functions and data plots through the dedicated statistics application.
- **Numeric Solver:** Solve equations numerically.
- **Text Editor:** Create and edit text files.
- **Programming Capabilities:** Write custom applications using the Program Editor.
- **Tables:** Generate tables of function values.
- **Split-Screen Function:** View multiple applications or data simultaneously.
- **Constants and Measurement Units:** Utilize a library of physical constants and convert between units.

## Preloaded Applications

The TI-89 Titanium comes with several preloaded applications to enhance functionality:

- Calendar
- CellSheet
- Contacts

- EE Pro (Electrical Engineering Professional)
- Finance
- NoteFolio
- Planner
- Polynomial Root Finder
- Simultaneous Equation Solver
- Statistics with List Editor
- StudyCards
- Symbolic Math Guide
- Tasks

## CONNECTIVITY

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The TI-89 Titanium features connectivity options for data transfer and linking with other devices.

- **USB Port:** A built-in USB port allows connection to a computer for data transfer, software updates, and sharing files. Use the provided USB computer cable.
- **Unit-to-Unit Cable:** The included USB unit-to-unit cable enables sharing data and programs between two TI-89 Titanium calculators or with TI-92 series calculators.
- **I/O Port:** An input/output port is available for connecting to accessories such as the CBL 2 system, CBR 2 motion sensor, Vernier EasyLink, and Vernier EasyTemp systems for real-world data collection and analysis.



Image: A close-up view of the TI-89 Titanium's USB port and I/O port, located on the top edge of the calculator.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the calculator's exterior. Avoid abrasive cleaners or solvents.
- **Protection:** Always use the included hard slide cover to protect the screen and keypad from scratches and impacts when not in use or during transport.
- **Storage:** Store the calculator in a cool, dry place. Remove batteries if storing for extended periods to prevent leakage.



Image: The TI-89 Titanium calculator with its black protective slide cover positioned next to it, demonstrating its use for protection.

## TROUBLESHOOTING

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- **Calculator Not Turning On:** Check battery installation and ensure batteries are fresh.
- **Display Issues:** Adjust the display contrast using the appropriate key combination (refer to the quick reference card). If the display remains blank, try replacing batteries.
- **Software Updates:** The TI-89 Titanium features flash technology, allowing for software upgrades. Connect the calculator to a computer via USB and visit the Texas Instruments website for the latest software versions and update instructions.
- **Resetting the Calculator:** If the calculator becomes unresponsive, a soft reset can often resolve the issue. Refer to the quick reference card or the official Texas Instruments support documentation for specific reset procedures.

## SPECIFICATIONS

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| Feature      | Detail                 |
|--------------|------------------------|
| Model Number | 89T/TBL/1L1/D          |
| Display      | 100 x 160 pixel LCD    |
| RAM          | 188 KB                 |
| Flash Memory | 2.7 MB                 |
| Power Source | 4 AAA batteries        |
| Dimensions   | 7.5 x 3.3 x 0.1 inches |
| Weight       | 10.2 ounces            |
| Connectivity | USB port, I/O port     |
| Material     | Plastic                |

## WARRANTY AND SUPPORT

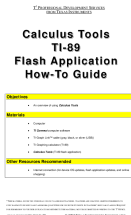
### Warranty Information

The Texas Instruments TI-89 Titanium Graphing Calculator is backed by a **1-year limited warranty**. For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the official Texas Instruments website.

### Customer Support

For additional assistance, technical support, or to download the full user manual, please visit the official Texas Instruments support website. You can also refer to the [User Manual \(PDF\)](#) for more in-depth information.

## Related Documents - TI-89 Titanium

|                                                                                     |                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">Handleiding TI Connect™ CE Software van Texas Instruments</a></p> <p>Leer hoe u de TI Connect™ CE Software van Texas Instruments gebruikt voor het beheren van uw grafische rekenmachines, het vastleggen van schermen, het overzetten van bestanden en het ontwikkelen van programma's.</p> |
|  | <p><a href="#">TI-89 Calculus Tools Flash Application How-To Guide</a></p> <p>A guide for installing and using the Calculus Tools flash application on the Texas Instruments TI-89 graphing calculator, covering linking, transfer, and feature usage.</p>                                                  |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><p>Getting Started with the<br/>TI-84 Plus CE-T<br/>Graphing Calculator</p><p>CE</p><p>Download the latest version of the documentation on <a href="#">Texas Instruments website</a></p></div>                      | <p><a href="#">Getting Started with the TI-84 Plus CE-T Graphing Calculator</a></p> <p>This user guide for the Texas Instruments TI-84 Plus CE-T graphing calculator provides instructions on setup, keyboard functions, mode settings, evaluating expressions, working with graphs, managing files, using applications, and troubleshooting.</p> |
| <div><p>TI-83 Premium CE (Family)<br/>Graphing Calculator<br/>Getting Started Guide</p><p>Learn more about TI's technology through the online help on <a href="#">Texas Instruments website</a></p></div>                | <p><a href="#">TI-83 Premium CE (Family) Graphing Calculator Getting Started Guide</a></p> <p>A comprehensive guide to the Texas Instruments TI-83 Premium CE (Family) graphing calculator, covering its features, operation, and applications for students and educators.</p>                                                                    |
| <div><p>Calculadora gráfica<br/>TI-84 Plus CE-T<br/>Manual do proprietário</p><p>CE</p><p>Learn more about TI's technology through the online help on <a href="#">Texas Instruments website</a></p></div>                | <p><a href="#">Manual do Proprietário da Calculadora Gráfica Texas Instruments TI-84 Plus CE-T</a></p> <p>Este manual detalha as funcionalidades e operações da calculadora gráfica Texas Instruments TI-84 Plus CE-T, cobrindo seus recursos, teclado, aplicações e solução de problemas.</p>                                                    |
| <div><p>TI-Nspire™ CX II Handhelds<br/>Guidebook</p><p>TI-Nspire™ CX II<br/>TI-Nspire™ CX II CAS</p><p>Learn more about TI's technology through the online help on <a href="#">Texas Instruments website</a></p></div> | <p><a href="#">TI-Nspire CX II Handhelds Guidebook: User Manual</a></p> <p>Comprehensive guidebook for Texas Instruments TI-Nspire CX II and TI-Nspire CX II CAS handheld graphing calculators, covering setup, usage, features, and troubleshooting.</p>                                                                                         |

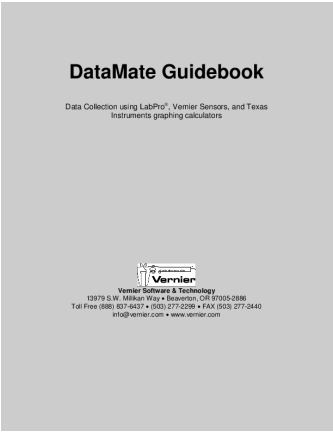
Documents - Texas Instruments – TI-89 Titanium



[pdf] User Manual Instructions Guide

Beyond DataMate Vernier Handbook and LabPro Technical Reference Manual are resources that can be ed from the web site vernier This guidebook is a step by guide to loading supplemental programs onto your TI graphing calculator If you follow these steps sequentially will ready collect data in little time manual for detailed instructions Special sensors specialized uses require do not come loaded on or CBL 2 interface beyonddatamate www2 calcreadme Beyond DataMate A Guide to Loading Supplemental Programs onto Your TI Graphing Calculator Vernier So ... I-83 Plus TI-83 Plus Silver Edition TI-84 Plus TI-84 Plus Silver Edition TI-85 TI-86 TI-89 TI-89 Titanium TI-92 TI-92 Plus Voyage 200 Cables to Connect the Calculator to the Computer To c...

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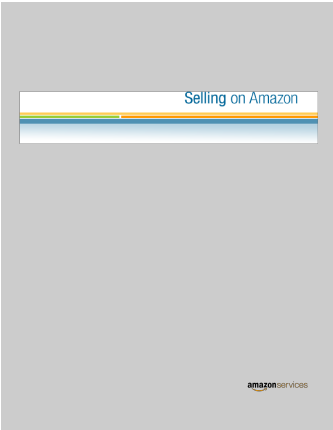
[\[pdf\]](#) User Manual Instructions Reference Guide Guide Declaration of Conformity

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eschmidt Vernier When Manual Trigger is selected a set of instructions will be given after you select START After selecting can leave Then disconnect the calculator 1 LabPro also used as computer interface using Logger Pro® software Further resources and Technical Reference Guide are available on CD 2 The CBL with sensors to collect data Texas Instruments graphing calculators directions contained herein apply both interfaces except where noted datamateguidebook www2 vernier calcreadme

DataMate Guidebook Data Collection using LabPro, Vernier Sensors, and Texas Instruments graphing cal ... 5 TI-89, TI-89

Titanium, TI-92, TI-92 Plus, and Voyage 200 .....

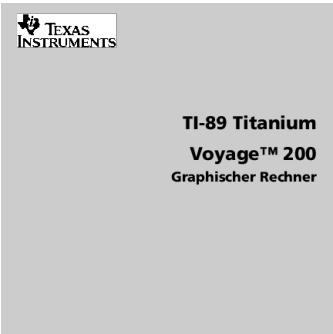
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Amazon Services' Consumer Electronics Style Guide offers sellers detailed instructions and best practices for creating optimized product detail pages. Learn how to craft effective titles, select high-quality images, write compelling descriptions and feature bullets, and manage product bundles and multi-packs to enhance visibility and sales on Amazon.com.au.

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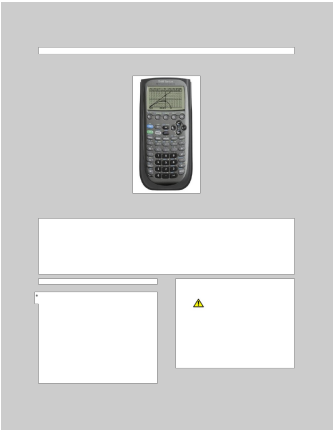


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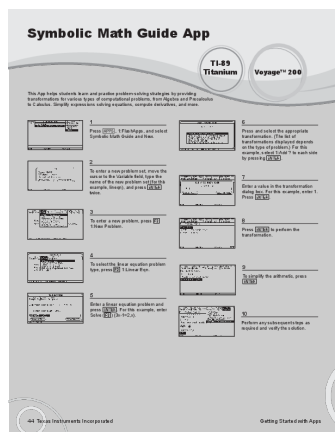


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Emily Smith Texas Instruments TI 89 Titanium Graphing Calculator NETTexas features 3 D graphing and real time rotation contour implicit plots It has advanced graphic features 252174media2store2 blob core windows net storage item spec 25 252174 |||

Texas Instruments TI-89 Titanium Graphing Calculator About This Item Description Texas Instruments TI-89 Titanium Graphing Calculator features 3-D graphing and real time rotation, contour and implicit plots. It has advanced graphic features for calculus, AP courses and university studies. Performs...

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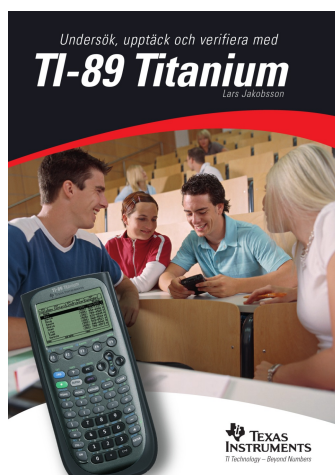
[pdf] Guide

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Symbolic Math Guide App TI-89 Titanium Voyage™ 200 This App helps students learn and practice problem-solving strategies by providing transformations for various types of computational problems, from Algebra and Precalculus to Calculus. Simplify expressions solving equations, compute derivatives...

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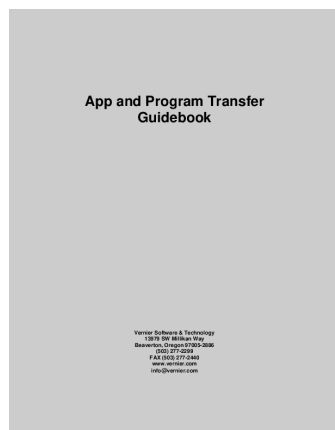
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Undersk, upptck och verifiera med TI-89 Titanium Lars Jakobsson TI Technology Beyond Numbers Innehll FRORD

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TRKIGT MEN VIKTIGT - INTRODUKTION .....

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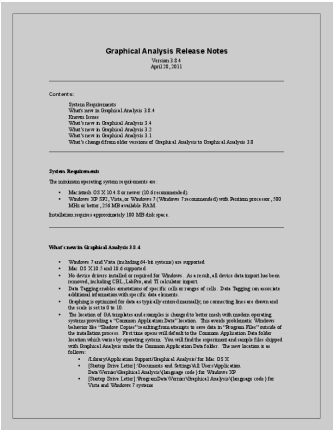
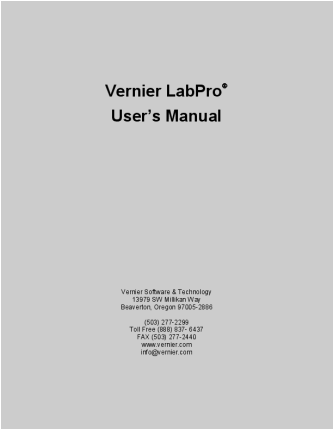
[pdf] User Manual

App and Program Transfer Guidebook Vernier graphing calculator computer Macintosh or Windows you are using CDs in the back on lab manuals DataGate DatMatch available with Computers Calculators manual 6 Step 3 Loading Your TI Graphing Calculator Using Connect for is very easy to use It works all calculators unless a 82 85 Software Technology 13979 SW Millikan Way Beaverton Oregon 97005 2886 503 277 2299 FAX 2440 transfer guidebook www2 vernier calcreadme

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[pdf] User Manual Installation Guide Declaration of Conformity

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Vernier LabPro User s Manual Vernier Software Technology 13979 SW Millikan Way Beaverton, Oregon 9 ... es TI graphing calculator cradle off-white color for the TI-84 Plus, TI-84 Plus Silver Edition, TI-89 Titanium TI graphing calculator cradle translucent blue green for the TI-73, TI-73 Explorer... lang:en score:21 filesize: 752.52 K page\_count: 35 document date: 2013-02-01

[pdf] Release Notes

Graphical Analysis 3 Erik Schmidt Vernier Apr 28 2011 — GraphicalAnalysis384ReleaseNotes www2 vernier manuals Graphical Analysis Release Notes Version 3.8.4 April 28, 2011 Contents: System Requirements What s n ... cal Analysis 3.4 Support for Windows 95 and NT has been discontinued. Support added for TI-84 and TI-89 Titanium USB direct cables. Control objects for user parameters have been added to the Insert... lang:en score:21 filesize: 87.54 K page\_count: 3 document date: 2011-04-29

[pdf] Guide

LE GUIDE MICRO FNAC Guide BTS final multimedia fnac Multimedia editorial Digital ||| LE GUIDE MICRO FNAC pour le meilleur et pour le prix Achetez un PC quip de Windows Vista maintenant ... oir page 74. 189 dont 010 d co-participation Remise adhrnts\*\* -5 TEXAS INSTRUMENTS Calculatrice TI-89 Titanium Lyce sections scientifiques suprieur - prpa sup et sp cran haute rsolution, antiref... lang:fr score:21 filesize: 13.93 M page\_count: 39 document date: 2009-08-21

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|  <b>Tlmath.com</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Calculus</b>              |
| <b>Local Linearity</b><br>10/1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Time required : 10-15 minute |
| <p><b>Activity Overview</b></p> <p>This is a short activity designed for a first time user. In this activity, students will explore graphing of an unknown function including parameters. They will investigate the concept of local linearity. This introductory activity allows strong connections to many calculus concepts including the idea of an inflection point, the definition of the derivative, and the chain rule for differentiability.</p> <p><b>Topic: Local Linearity</b></p> <ul style="list-style-type: none"> <li>• Role of the tangent</li> <li>• Connections to definition of the derivative and differentiability</li> </ul> |                              |
| <p><b>Teacher Preparation and Notes</b></p> <p>This activity will help students learn how to graph piecewise functions using the <i>when?</i> function.</p> <ul style="list-style-type: none"> <li>• <a href="#">Download the student worksheet</a>, go to <a href="#">education.com/teacher</a> and enter "10089" in the keyword search box.</li> </ul>                                                                                                                                                                                                                                                                                            |                              |
| <p><b>Associated Materials</b></p> <ul style="list-style-type: none"> <li>• Local-Linear, Student.doc</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |
| <p><b>Suggested Related Activities</b></p> <p>To download any activity listed, go to <a href="#">education.com/teacher</a> and enter the number in the keyword box.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| <ul style="list-style-type: none"> <li>• <a href="#">Local Linearity, Differentiability and Limits of Difference Quotients</a> – 1064</li> <li>• <a href="#">Continuity and Limits</a> – 1058</li> <li>• <a href="#">Continuity and Differentiability of Functions (71 Napier Inequality)</a> – 4408</li> <li>• <a href="#">Differentiability and Continuity (144 Plus Twenty)</a> – 5417</li> <li>• <a href="#">Piecewise Functions: Continuous Differentiable (70 Ten Tally)</a> – 2293</li> </ul>                                                                                                                                                |                              |

Activity overview a0384871 Texas Instruments LocalLinearity Teacher education ti media

Tlmath.com Calculus Local Linearity ID: 10889 Time required 10-15 minutes Activity Overview

Linearity TImath...

**TEXAS  
INSTRUMENTS**

## TECHNOLOGY REWARDS PROGRAM REQUEST FORM FOR COLLEGE & UNIVERSITY EDUCATORS USING SYLLABUS

Thank you for selecting Texas Instruments technology for use in your classroom. This form is designed to assist you in all request. Please complete the following program requirements and guidelines:

- One request for each semester allowed for each 1st and/or second year 1st semester department
- One department request may substitute for current semester
- Request must be based on current syllabus of students currently in listed courses
- Request must be based on current syllabus of students currently in listed courses
- Must include syllabus for each instructor requesting product. Syllabus must state that TI calculations are "highly recommended" or "required"

Date \_\_\_\_\_

Institution \_\_\_\_\_ Course \_\_\_\_\_ Year \_\_\_\_\_

Address (No P.O. Boxes) \_\_\_\_\_ Campus \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

E-mail Address \_\_\_\_\_ Fax Number \_\_\_\_\_

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V E R N I E R V E S R O N F I E T R W S A O F R T E W A R E T E C T H E C N H O N L O L O O G G Y Y

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has also announced the TI-89 Titanium, which is an improved TI-89. e TI-89 Titanium is 100

keystroke-for-keystroke compati...

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**Timath.com**

**Calculus**

**One Sided Limits**

**ID: 10994**

**Time required**

15 minutes

**Activity Overview**

Students will graph piecewise functions and evaluate both the left hand limit and the right hand limit of the function as a parameter a given number c. The TI-89 feature will be used to graphically estimate the one sided limit. Students will also use a table of values of each function to numerically verify that the values of the function to left and right of c are approaching the same number.

**Topic: Limits**

- One Sided Limits

**Teacher Preparation & Notes**

- Students should already have been introduced to one-sided limits.
- Students should know that a limit exists if and only if the left hand limit and the right hand limit are equal.
- Upgrade the TI-89 Titanium to OS version 3.10 so that "Discontinuity Detection" can be utilized. On a graph, press F1 > Format to turn Discontinuity Detection On.
- To download the student worksheet, go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter "10994" in the keyword search box.

**Associated Materials**

- OneSidedLimits\_Student.doc

**Suggested Related Activities**

To download any activity listed, go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter the number in the keyword search box.

- Limits (TI-Nspire CAS technology) — 8087
- Continuity and Differentiability of Functions (TI-Nspire technology) — 8488

0001 Texas Instruments Incorporated
Teacher Page
OneSidedLimits

[pdf]

Activity overview a0384871 Texas Instruments OneSidedLimits Teacher education ti media

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Timath.com Calculus One Sided Limits ID: 10994 Time required 15 minutes Activity Overview Studen ... a limit exists if and only if the left hand limit and the right hand limit are equal.

Upgrade the TI-89 Titanium to OS Version 3.10 so that Discontinuity Detection can be utilized. On a graph, pre...

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**Timath.com**

**Precalculus**

**Complex Numbers**

**ID: 10887**

**Time required**

15 minutes

**Activity Overview**

In this activity, students calculate problems from the student worksheet to determine the rules for adding, subtracting, multiplying and dividing complex numbers.

**Topic: Complex Numbers**

- Operations with Complex Numbers

**Teacher Preparation & Notes**

- Students have space on the handout to write solutions. If you are using Connect-to-Class, students can share a Master Application Page (notes, notes and your own explanations) for collection.
- Relating to the complex conjugate is not a part of this activity. It is a natural extension to after this activity.
- To download the student worksheet, go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter "10887" in the keyword search box.

**Associated Materials**

- ComplexNumbers\_Student.doc

**Suggested Related Activities**

To download any activity listed, go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter the number in the keyword search box.

- Complex Numbers: Plotting and Polar Form (TI-Nspire technology) — 8908
- Steady State Circuit Analysis & Filter Design (TI-89 Titanium) — 3063

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Teacher Page
Complex Numbers

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Activity overview Texas Instruments a0384871 ComplexNumbers Teacher education ti media

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Timath.com Precalculus Complex Numbers ID: 10887 Time required 15 minutes Activity Overview In t ... tting and Polar Form TI-Nspire technology -- 8908 Steady State Circuit Analysis Filter Design TI-89 Titanium -- 3063 2010 Texas Instruments Incorporated Teacher Page Complex Numbers Timath...

lang:en score:20 filesize: 57.79 K page\_count: 4 document date: 2011-02-18

**Timath.com**

**Precalculus**

**Exploring Rational Functions**

**ID: 8968**

**Time required**

45 minutes

**Activity Overview**

Students investigate the graphs of functions of the form  $y = \frac{1}{x-a}$ . They will discover that the graph of such a function has a vertical asymptote at  $x = a$  and a horizontal asymptote at  $y = 0$ . They will investigate the graphs and numeric consequences of such asymptotic behavior by observing a trace point on a graph as it moves in response to various inputs for the independent variable.

**Topic: Rational & Radical Functions**

- Calculate a rational function for any real value of the variable.
- Graph any rational function to verify its domain, range, singularities and asymptotes.

**Teacher Preparation & Notes**

This investigation could be used as an introduction to graphs of rational functions. The phrases vertical and horizontal asymptote are introduced in the activity, but the emphasis here is the connections among graphs, numeric, and symbolic representations of rational functions.

- This activity could be used in Algebra 2 or Precalculus as an introduction to rational functions.
- Notes for using the TI-Nspire™ Navigator™ System are included throughout the activity. The use of the Navigator System is not necessary for completion of this activity.
- To download the student TI-Nspire document (.tns file), go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter "8968" in the keyword search box.

**Associated Materials**

- ExploringRationalFunctions\_Student.doc
- ExploringRationalFunctions.tns

**Suggested Related Activities**

To download any activity listed, go to [education.ti.com/exchange](http://education.ti.com/exchange) and enter the number in the keyword search box.

- The Remainder Theorem Using TI-Nspire CAS (TI-Nspire CAS technology) — 1024
- Multiplication & Division of Functions (TI-Nspire technology) — 10218
- Polynomial Division (TI-89 Titanium) — 5505

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Teacher Page
Exploring Rational Functions

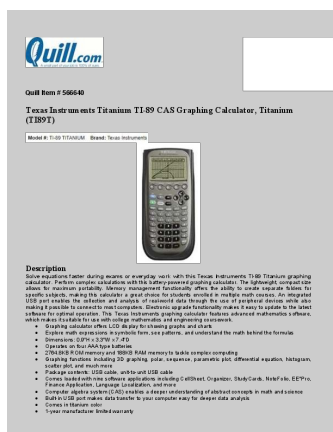
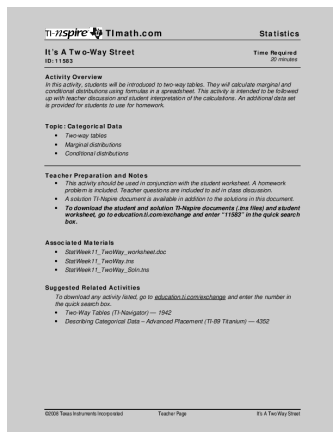
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Timath.com Precalculus Exploring Rational Functions ID: 8968 Time required 45 minutes Activity O ... 9254 Multiplication Division of Functions TI-Nspire technology -- 10218 Polynomial Division TI-89 Titanium -- 5505 2011 Texas Instruments Incorporated Teacher Page Exploring Rational Funct...

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Activity overview 17 Texas Instruments a0384871 StatWeek11 TwoWay TINspire education ti media

[Tlmath.com Statistics It s A Two-Way Street ID: 11583 Time Required 20 minutes Activity Overview ...](#)
[earch box. Two-Way Tables TI-Navigator -- 1942 Describing Categorical Data Advanced Placement TI-89 Titanium -- 4352 2008 Texas Instruments Incorporated Teacher Page It s A Two Way Street ...](#)



Activity overview a0384871 Texas Instruments ExpandingBinomials Teacher education ti 80 ~ media

Tlmath.com Precalculus Expanding Binomials ID: 11139 Time required 45 minutes Activity  
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 Binomial Theorem TI-89 Titanium 5376 Using the TI-83/84 to Explore the Binomial Theorem TI-  
 84 Plus family 5768 ...



Detailed overview of the Texas Instruments TI-89 Titanium CAS Graphing Calculator (TI89T).

lang:en score:20 filesize: 82.8 K page count: 1 document date: 2022-12-06



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4. Request must be based on current number of students enrolled in listed courses.
5. Request must be based on current semester.
6. Must include approvals from each instructor requesting products. Syllabus must state that TI calculator are "highly recommended" or "required".

Date \_\_\_\_\_

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| Country _____                      | Fax Number _____     |             |           |        |
| Phone Number _____                 | E-mail Address _____ |             |           |        |
| Name _____                         | Title _____          |             |           |        |
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5. **Must include verification from each instructor requesting product.** Syllabus must state that TI calculator is highly recommended or "required"

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Institution \_\_\_\_\_

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CL15034A

OCTOBER 2015

Official Student Guide to the  
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Preliminary SAT/National Merit Scholarship Qualifying Test

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OCTOBER 2015 Official Student Guide to the National Merit Scholarship Program conducted by National ... TI-83 Plus Silver TI-84 Plus TI-84 Plus CE TI-84 Plus Silver TI-84 Plus C Silver TI-85 TI-86 TI-89 TI-89 Titanium TI-Nspire TI-Nspire CX TI-Nspire CM-C TI-Nspire CAS TI-Nspire CX CAS TI-Nspire CM-C C...

lang:en score:19 filesize: 1.45 M page count: 56 document date: 2015-09-15

[\[pdf\]](#) User Manual Installation Guide Release Notes

Transitioning from Logger Pro 2 to 3 J Edgar Vernier Release Notes Jan 18 2006 — Graph Options dialog now respects manual scale settings Better LabPro driver install on Windows 2000 Fixed a power saving Improved modeling curve fits that can be modified after the fit is drawn main graph Curve optionally stored as calculated column of user parameters allows manually adjusted Video Features LoggerPro342ReleaseNotes www2 vernier manuals Logger Pro 3 Release Notes Version 3.4.2 January 18, 2006 System Requirements Install Notes What s ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

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## TI Connect™ CE Software

This guidebook applies to version 5.2. To obtain the latest version of the document, go to [www.ti.com/go/cehelp](http://www.ti.com/go/cehelp)

## [\[pdf\]](#) Documentation Warranty

TI Connect™ CE Software Education Texas Instruments TIconnectCEHelp EN GB audentia gestion fr TEXAS INSTRUMENTS EDUCATION |||

TI Connect™ CE Software This guidebook applies to version 5.2. To obtain the latest version of the ... 82 Advanced Note: Use TI Connect 4.0 which supports calculators with an I/O port only: TI-83 Plus TI-89 Titanium Voyage 200 TI-73 Explorer Introduction to the TI Connect™ CE Software 1 Using th...

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### Logger Pro 3 Release Notes

Version 3.4.6  
July 19, 2006

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Transitioning from Logger Pro 2 to 3 J Edgar Vernier Jul 19 2006 — Manual curve fits may be modified after the fit is drawn on main graph Curve now optionally stored as a calculated column of user LoggerPro3ReleaseNotes

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Logger Pro 3 Release Notes Version 3.4.6 July 19, 2006 Contents System Requirements Install Notes Wh ... such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

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### Logger Pro 3 Release Notes

Version 3.5.0  
April 24, 2007

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Transitioning from Logger Pro 2 to 3 J Edgar LoggerPro350ReleaseNotes www2 vernier manuals

Logger Pro 3 Release Notes Version 3.5.0 April 24, 2007 Contents System Requirements Install Notes W ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

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### Logger Pro 3 Release Notes

Version 3.6.0  
December 5, 2007

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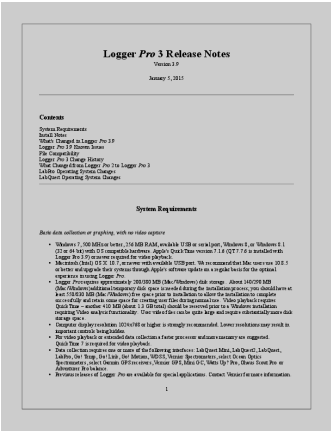
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Transitioning from Logger Pro 2 to 3 J Edgar LoggerPro360ReleaseNotes www2 vernier manuals

Logger Pro 3 Release Notes Version 3.6.0 December 5, 2007 Contents System Requirements Install Notes ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

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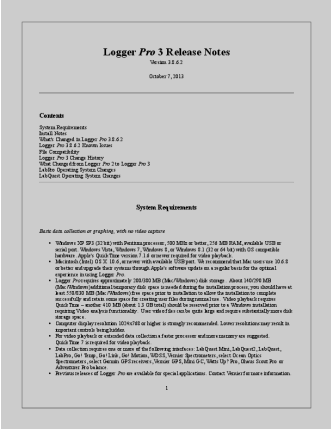




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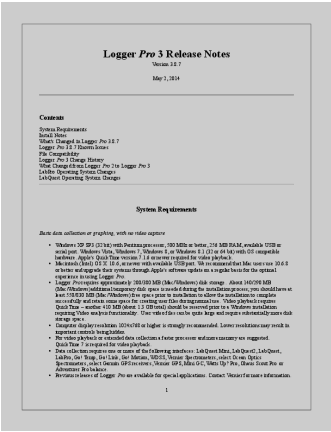
Transitioning from Logger Pro 2 to 3 J Edgar Vernier Jan 5 2015 — may be used in the manual setups LabQuest file Compatibility 7 or newer can open most files correctly Data columns LoggerPro39ReleaseNotes www2 vernier manuals

Logger Pro 3 Release Notes Version 3.9 January 5, 2015 Contents System Requirements Install Notes Wh ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ... lang:en score:16 filesize: 221.86 K page\_count: 38 document date: 2015-01-05



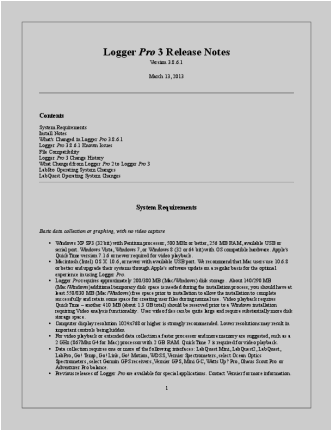
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Transitioning from Logger Pro 2 to 3 J Edgar LoggerPro3862ReleaseNotes www2 vernier manuals Logger Pro 3 Release Notes Version 3.8.6.2 October 7, 2013 Contents System Requirements Install Note ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ... lang:en score:16 filesize: 217.92 K page\_count: 36 document date: 2013-10-07



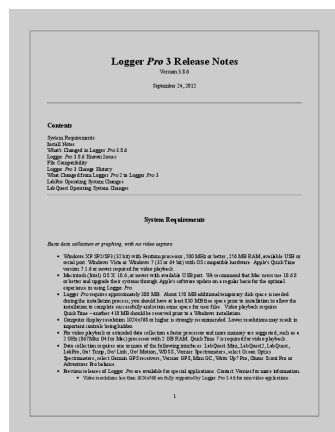
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Transitioning from Logger Pro 2 to 3 J Edgar LoggerPro387ReleaseNotes www2 vernier manuals Logger Pro 3 Release Notes Version 3.8.7 May 2, 2014 Contents System Requirements Install Notes What ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ... lang:en score:16 filesize: 220.55 K page\_count: 37 document date: 2014-05-02



[pdf] Installation Guide Release Notes

Transitioning from Logger Pro 2 to 3 J Edgar LoggerPro3861ReleaseNotes www2 vernier manuals Logger Pro 3 Release Notes Version 3.8.6.1 March 13, 2013 Contents System Requirements Install Notes ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ... lang:en score:16 filesize: 215.41 K page\_count: 35 document date: 2013-03-13



## Context

### System Requirements

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TEXAS  
INSTRUMENTS

[\[pdf\]](#) Guide



**Tmath.com**

**Calculus**

---

**Value table Theorems**

10/1/2022

**Time Required**

10 minutes

---

**Activity Overview**

The activity is a teacher demonstration of the Intermediate Value Theorem and the Extreme Value Theorem from a graphical perspective. The function  $f(x)$  is defined on the interval  $[0, 1]$  and graphically demonstrates that there is a point on the interval  $[0, 1]$  such that  $f(x) = 1/2$ . The Intermediate Value Theorem then argues are provided to convince the class that this is the case.

---

**Topic: Calculus Theorems**

- Intermediate Value Theorem
- Extreme Value Theorem

---

**Teacher Preparation and Notes**

This activity is designed for use as a teacher demonstration. Here it may be used as a student activity.

- Students are introduced to the Intermediate Value Theorem. The teacher can use a graphing calculator to change the value of  $y$  and observe the corresponding  $x$  value.
- Between  $y=0$  and  $y=1$  there is a value  $c$  such that  $f(c)=1/2$ .
- Students are also introduced to the Extreme Value Theorem. For each point the teacher should ask whether or not the given function fulfills the hypothesis of the Extreme Value Theorem.
- Make sure that the operating system of all TI-89 Titanium Calculators is version 2.50. To check the version or to install calculations, go to the Apps screen and select P-TMATH.
- 2 Additional... to download the newest version of the TI-89 OS, go to [www.ti.com](http://www.ti.com).

**1/1202 in the keyword search engine.**

---

**Associated Materials**

Calculus/Thematics/Student.doc

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**Suggested Related Activities**

Students can be assigned to read or [watch a video](#) and enter the number in the keyword search box.

- Algebra/Calculus/1/89 Titanium... - 2004
- Finding Extreme Values/1/89 Titanium... - 2004
- Advanced Using Derivatives/1/89 Titanium... - 8413
- Functions and Their Graphs/1/89 Titanium... - 6138

[illegible][illegible]

[\[pdf\]](#) Decleration of Conformity

Microsoft Word ValueableTheorems Teacher doc aluff education ti media 6036A8268B4D458A9006367A96E63904 |||

Tlmath.com Calculus Value able Theorems ID: 11202 Time Required 10-15 minutes Activity  
 Overview ... n fulfills the hypothesis of the Extreme Value Theorem. Make sure that the  
 operating system of all TI-89 Titanium calculators is version 3.10. To check the version of on  
 the calculators, go to the Ap...

lang:en score:16 filesize: 62.59 K page count: 3 document date: 2011-06-24

[\[pdf\]](#) User Manual Installation Guide Release Notes

Transitioning from Logger Pro 2 to 3 J Edgar Release Notes of certain curricula however many devices interfaces etc do not yet allow manual setups Examples include Spectrometers Ohaus balances GoTemp GoMotion Only sensors which use the LabPro LabQuest or Go!Link may be used in file Compatibility 7 can open most files correctly

LoggerPro37ReleaseNotes www2.vernier.com

Logger Pro 3 Release Notes Version 3.7 February 20, 2009 Contents System Requirements  
Install Notes ... re such rights. Support for New Devices Support added for Go Motion. Support  
added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood  
Pressure, Charge, Spirometer, and ...

lang:en score:16 filesize: 220 K page count: 24 document date: 2009-02-20

[\[pdf\]](#) Installation Guide Release Notes

Logger Pro 3 Release Notes J Edgar LoggerPro312ReleaseNotes www2 vernier manuals

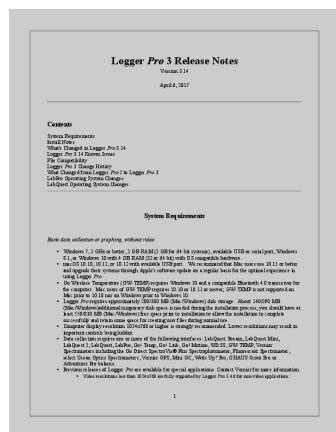
Logger Pro 3 Release Notes Version 3.12 October 6, 2016 Contents System Requirements

Install Notes W ... re such rights. Support for New Devices Support added for Go Motion.

Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

lang:en score:16 filesize: 239.86 K page count: 40 document date: 2016-10-06





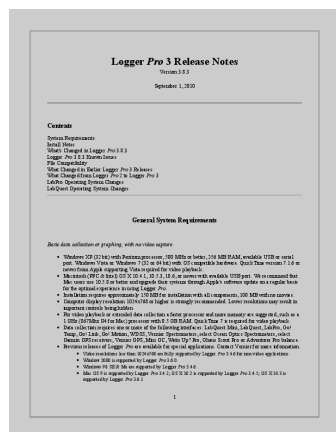
## [\[pdf\]](#) User Manual Installation Guide Release Notes

Logger Pro 3 Release Notes J Edgar Vernier Apr 6 2017 — may be used in the manual setups LabQuest file

Compatibility 7 or newer can open most files correctly Data columns LoggerPro3 14 ReleaseNotes www2 vernier manuals

Logger Pro 3 Release Notes Version 3.14 April 6, 2017 Contents System Requirements Install Notes Wha ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

lang:en **score:16** filesize: 240.9 K page\_count: 41 document date: 2017-04-06



## [\[pdf\]](#) User Manual Installation Guide Release Notes

Transitioning from Logger Pro 2 to 3 J Edgar Release Notes LabQuest Mini or Go!Link may be used in the manual

setups file Compatibility 8 can open most files correctly Data columns will translated However some cases there

errors calculated column translation breaking data import In you LoggerPro383ReleaseNotes www2 vernier manuals

Logger Pro 3 Release Notes Version 3.8.3 September 1, 2010 Contents System Requirements Install Note ... re such rights. Support for New Devices Support added for Go Motion. Support added for TI-84 and TI-89 Titanium USB direct cables. Support for new sensors: Blood Pressure, Charge, Spirometer, and ...

lang:en **score:16** filesize: 203.99 K page\_count: 29 document date: 2010-09-01