



Professional Development Webinars

Introducing the TI-84 Plus CE App for Use With Chromebook™ Notebook Computers

Spring 2020

education.ti.com/tiwebinars

Moderator Bio



Mike Houston

T³ National Instructor

Ellwood City, PA

Mike is in his fifteenth year of teaching high school mathematics in Ellwood City, PA. While participating in a TI-Navigator™ Fast-Track in 2007, he learned how technology can effectively cultivate students' wide range of learning styles. During this time, Mike has served as a T³ National Instructor and a contributing author for MathForward™.

Panelists' Bios

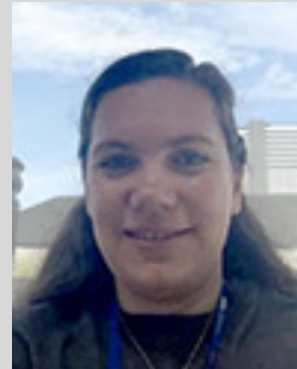


Margo Mankus

**Product Development,
Texas Instruments**

Dallas, TX

Margo is currently the Product Development Manager for the TI-84 Plus Classroom Solution at Texas Instruments. She enjoys working with TI software developers and teams of educators to bring the educators' "wish-list" to the graphing calculator classroom. Margo is an Applied Mathematician and enjoyed a fulfilling university teaching career.



Tysun McKay

**Product Manager,
Texas Instruments**

Dallas, TX

After graduating with a B.S. in Biology from Southern Methodist University, Tysun started at TI working in the customer call center, where every conversation started: "1-800-TI-CARES. This is Tysun, how can I help you?". The most enjoyable part of every role Tysun has had at TI, has been the opportunity to talk to educators and students about how TI has helped improve the understanding of math and science concepts. In her current role, Tysun is focused on the STEM, Software, and Navigator product lines.

Agenda

- Welcome & introductions
- TI-84 Plus CE App for Chrome OS Offer
 - Trial version of the TI-84 Plus CE Chromebook App (Beta)
 - How to get the App
- TI-84 Plus CE App for Chrome OS information and demo
 - What to expect in the default OS? Open/Close state.
 - Emulator Sizing
 - Pressing Emulator Keys
 - Screenshots using Chrome OS short-cut keys
- Extra Information Slide:
 - TI Connect CE App for Chrome OS when connected to a TI-84 Plus CE
 - <https://education.ti.com/en/products/computer-software/ti-connect-ce-chrome-os>
- Webinar drawing

TI-84 Plus CE App For Chrome OS

- For a limited time, TI is offering schools and districts a trial of a beta version of the TI-84 Plus CE Chromebook App to support remote learning.
- The app, which emulates the TI-84 Plus CE graphing calculator, is intended for schools and districts to deploy on students' Chromebooks during this time of need.
- The app will expire on Aug 15, 2020.

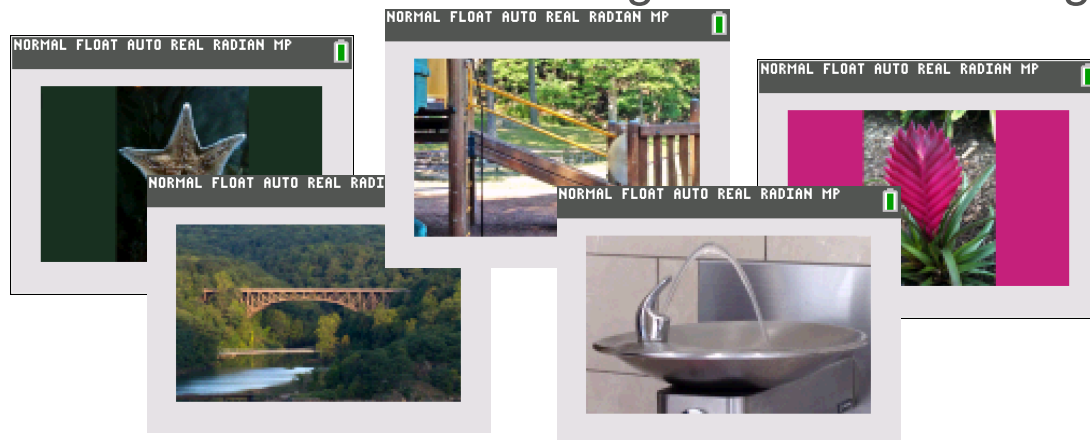
How to get the App

education.ti.com/distancelearning

- Please fill out the contact form at the bottom of this url and an ETC will help you get the access you need

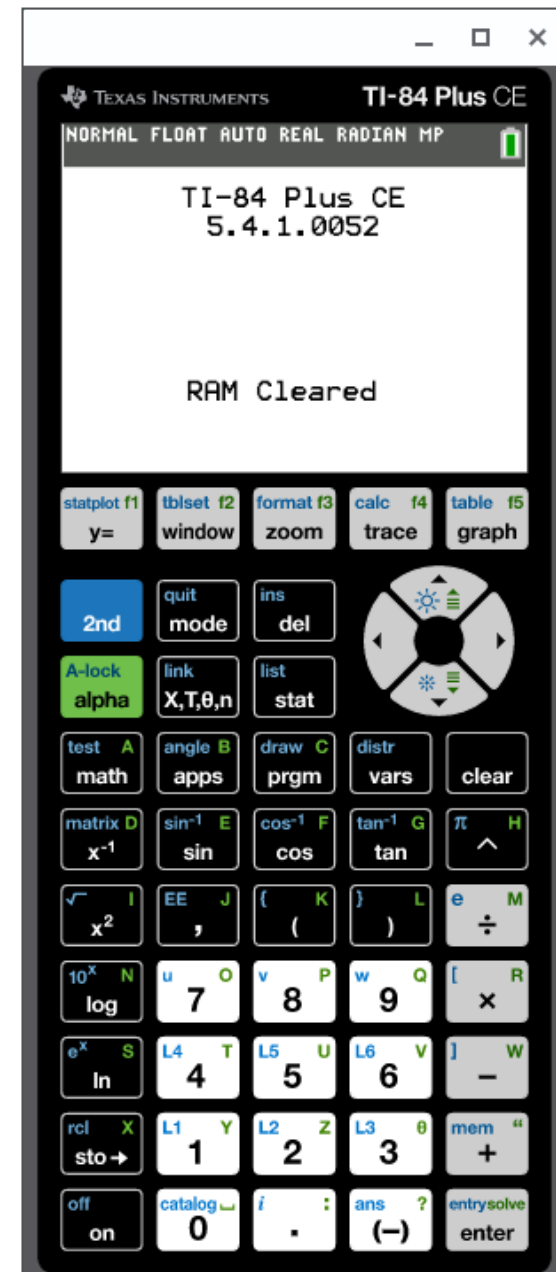
TI-84 Plus CE App for Chrome OS

- CE OS v 5.4 math features!
- Familiar 5 Pre-loaded Image Vars for modeling



Alert for this Beta version!

- No [apps] are loaded
- No Send/Receive calculator files to/from emulator.
- When App is launched, the emulator always returns to the default state (as shown here.)
 - Tip: [2nd] [quit] to the Home Screen from RAM Cleared screen.



Emulator Window Sizing (Demo)

- Emulator window snaps to size as any window on Chrome OS.
- Resize the emulator window as needed to “stage” your windows.
 - Tip: See 84 Activity Central for activities to support for your remote teaching!
 - See <https://education.ti.com/en/84activitycentral/us/home>

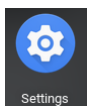
The screenshot shows a TI-84 Plus CE emulator window on the left and a web browser window on the right. The emulator window displays a graph of a parabola $Y_1 = X^2$ on a coordinate plane. The web browser window shows the 84 Activity Central website, specifically the Algebra I | Quadratic Functions section. The website has a navigation bar with links to Products, Downloads, Activities, Professional Development, Resources, Customer Support, Where to Buy, About Us, and Site (US and Canada). The main content area lists three activities: Bridge On The River Quad, Graphing Quadratic Functions, and Using Symmetry to Find the Vertex of a Parabola. Each activity includes a description, a graph, and a download button. The download button for Bridge On The River Quad shows 10,305 downloads. The download button for Graphing Quadratic Functions shows 9,972 downloads. The download button for Using Symmetry to Find the Vertex of a Parabola shows 9,709 downloads. The download button for Quadratic Formula shows 14,294 downloads.

Activity	Download Count
Bridge On The River Quad	10,305
Graphing Quadratic Functions	9,972
Using Symmetry to Find the Vertex of a Parabola	9,709
Quadratic Formula	14,294

Pressing Emulator Keys in Chrome OS (Demo)

- Touch Screen - Touch each emulator key

- Mouse – click away on the emulator keys!



- Tip: Check Mouse speed and acceleration settings

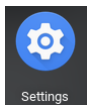
- Settings > Device > Mouse and touchpad

- Tip: Highlight mouse cursor when it is moving?

- Settings > Device > Accessibility > Manage Accessibility Features



- Touchpad – touch the emulator keys!



- Tip: Check Touchpad speed and acceleration

- Settings > Device > Mouse and touchpad

- SmartPad CE App on a connected TI-84 Plus CE:

- Teacher tip:

- If you have your TI-84 Plus CE and the USB computer cable, connect and use the SmartPad CE App!

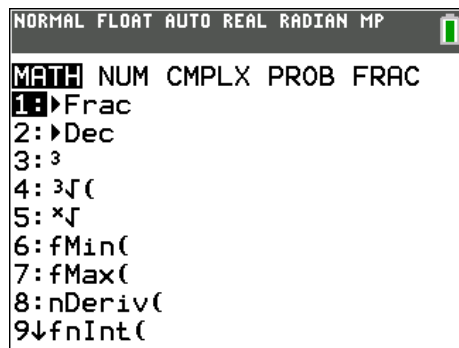
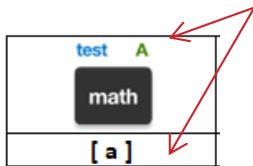
- For Students

- SmartPad CE App is preloaded if they have the TI-84 Plus CE at home. However, be aware they may not have the USB computer cable at hand.

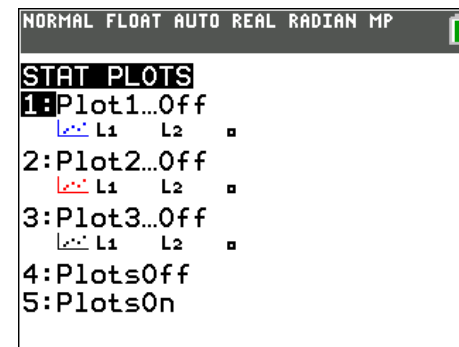
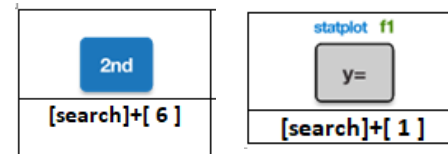
Chrome OS Keyboard Shortcuts for Emulator Keypressing

A document will be posted with the full emulator keypad shortcuts.
Here is a sample of the table entries.

To press [math], press [a] on the keyboard.



To press [2nd][stat plot], press



Chrome OS Shortcuts Tips – Many of you are probably expert at these!

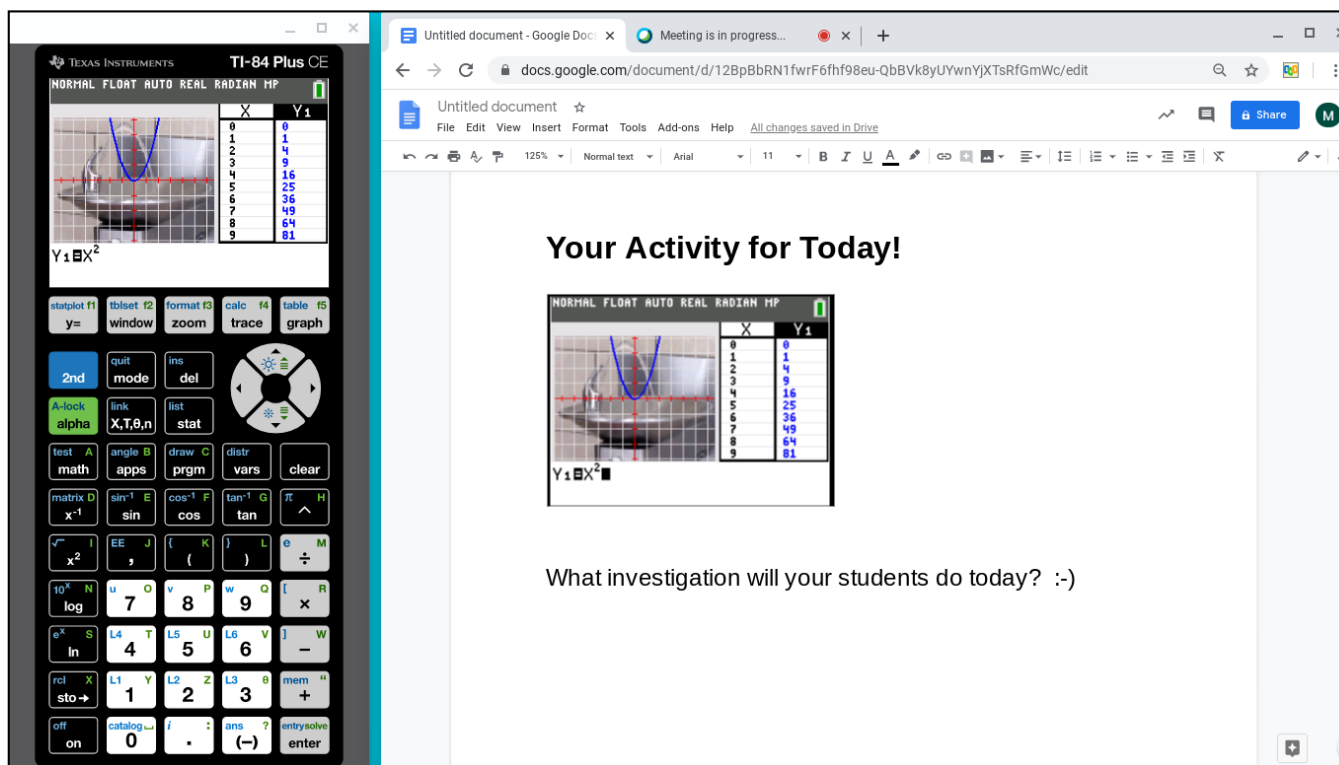
[ctrl]+[alt]+[/] displays general Chrome OS shortcuts → Good to know!

Notice [alt]+[backspace] is also emulator key [del]

Screen Snip (Demo)

Chrome OS Shortcuts Tip to take a screenshot:

- Take partial screenshot [ctrl]+[shift]+[⌘ ||]
- Take screenshot [ctrl]+[⌘ ||]



[ctrl]+[alt]+[/] displays general Chrome OS shortcuts → Good to know!

Demo

Do you have a TI-84 Plus CE and USB cable at home?

TI Connect CE App for Chrome OS

- When a TI-84 Plus CE is connect to your Chromebook, TI Connect CE features include
 - Send and receive calculator files (programs, lists, images, etc.) to/from a connected TI-84 Plus CE
 - Quickly capture calculator screen shots
 - View screens as thumbnails or in a slide show
 - Copy screens to paste in worksheets, reports and presentations
 - Save calculator files and screen captures locally or to your Google Drive™ online storage service folder
- More information at
 - <https://education.ti.com/en/products/computer-software/ti-connect-ce-chrome-os>



How to get the TI-84 Plus CE App for Chrome OS

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- Please fill out the contact form at the bottom of this url and an ETC will help you get the access you need



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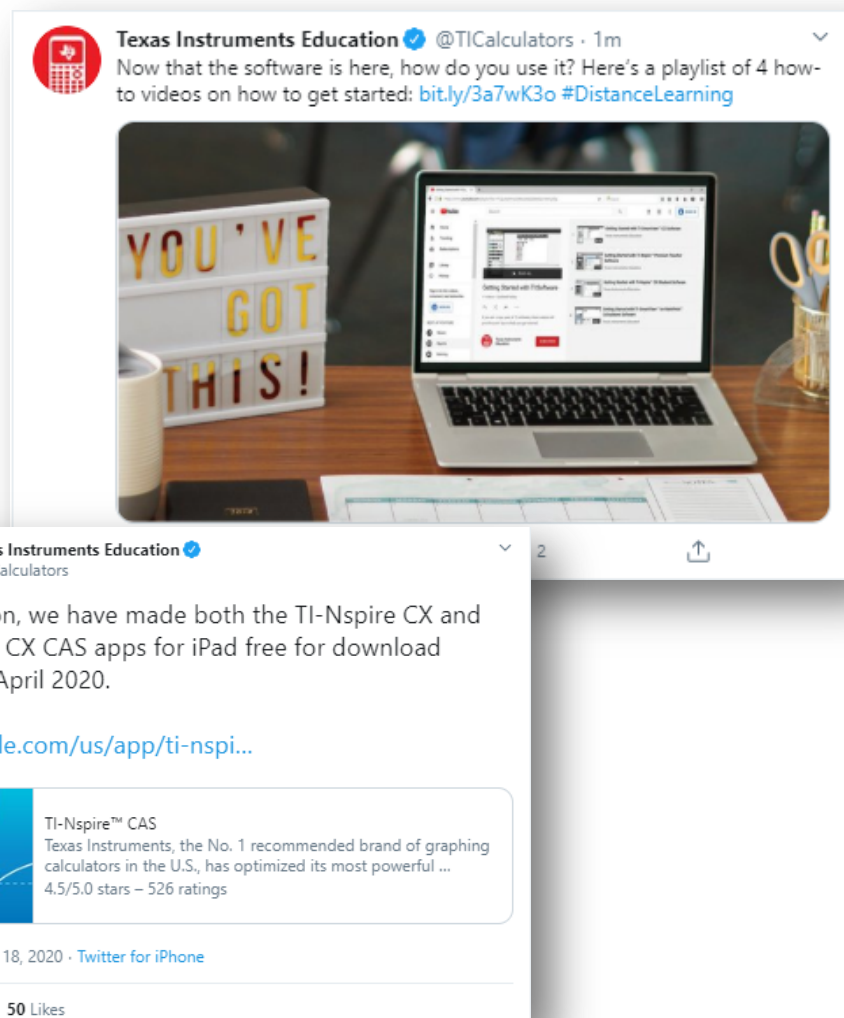
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Post-Webinar Follow-up

Find useful resources, answers to your questions & access to friendly, knowledgeable customer support and technical reps.

General Questions: 1-800-TI-CARES

Technical Questions: 972-917-8324
or ti-cares@ti.com



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