| ClassPad II - Tips and Trick   | C   | Downl   | oads www.charliewatson.com/classpad/   |
|--|---|---|--|
|  | ClassPad Help Series at www   | .classpad.com.au now has  | Charlie Watson   |
|  | videos grouped by math ATAR<br>General/Further/Application  | course – Units 1&2, 3&4 for   | <b>N A</b> - i -   |
| <b>ClassPad II</b><br>Keep your ClassPad II operating system<br>up to date. November 2019, the latest is:  | Main<br>Settings, Basic Format, Number Format<br>best set to Normal 2 to avoid display of<br>small numbers in scientific notation.                                      | <b>Main</b><br>Shift keys can speed up student work in<br>many apps.  | Main<br>Quick ways to solve, diff, etc. Note<br>assumptions and defaults.<br>Substitute using   from the Math 3  |
| 02.01.6  | Use default option in Settings, Graph   | Help-sheet and list of default keys at  | menu.<br>Use solve to rearrange equations for a  |
| /isit <u>http://edu.casio.com</u> for free<br>download of OS update for both   | Format and Geometry Format to reset<br>apps and fix any issues (eg no axes  | https://charliewatson.com/atar/   | particular variable.   |
| handheld and manager (PC version)  | displayed, etc).  | Assign or modify shift keys in System.  | Use the 'finger' to recalculate single lin   |
| MENU C<br>New<br>Open<br>Save As<br>Touch Panel Alignment<br>Version<br>Spread-<br>Sheet<br>Spread-<br>Sheet<br>Spread-<br>Table<br>Geometry<br>Geometry | Basic Format       Current Folder       main       Number Format       Normal 1       Normal 2       Fix 0       Fix 1       Fix 2       Fix 3       V Descending Order | System         Reset         Initialize         Display Settings         Power Properties         Language         Imaginary Unit         Keyboard         Shift Keys         Key         7       Clear | Edit Action Interactive<br>Edit Action Interactive<br>$5 = 1$ $fdx$ $simp$ $fdx$ $v$ $\psi$ $v$<br>$x^3-12x+2$<br>$x^3-12\cdot x+2$<br>diff (<br>$3\cdot x^2-12$<br>solve (<br>$\{x=-2, x=2\}$<br>$x^3-12\cdot x+2   x=-2$<br>18<br>solve ( $5=w^2+2wh, h$ |

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| ClassFau II - Tips and Theks  | Author    | Charlie Watson                  |  |

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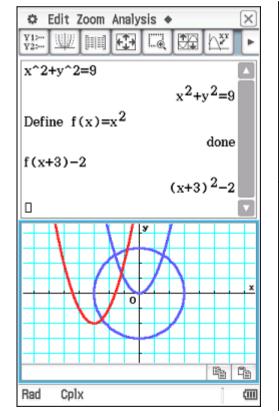
**n** 1

# Zoom In/Out/Auto

## Main

Graph functions using split screen, especially those implicitly defined or relations.

Define f(x) and use for exploring function transformation.



In Graph & Table, Geometry, Sequence, Statistics, etc., tap the [+] or [-] key to zoom in or zoom out. Tap the [=] key to auto scale (result depends on application).

### Geometry

Solve scale drawing and coordinate geometry problems.

Se File Edit View Draw

7.878462

File Edit View Draw

5

x+y= y=0.5·x+2

 $\leftrightarrow$ 

4

15

х+у=

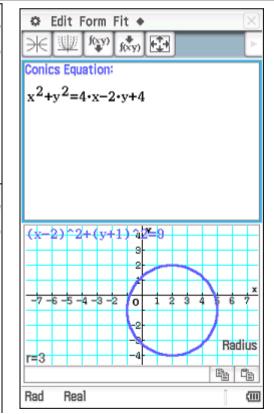
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#### Conics

A great application for exploring relations rather than functions.

G-Solve menu is relation-smart and changes depending on type of graph.

## Don't miss the Fit to Form tools!

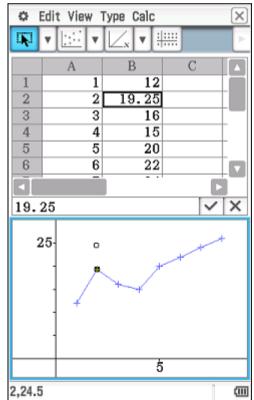


#### Spreadsheet

Two types of selection before dragging - black or no cell border.

Use Edit/Fill/Fill Range to fill selection.

Create time series, etc, by dragging data points on graph.



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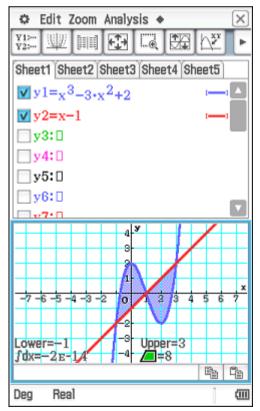
# Sliders and graphs

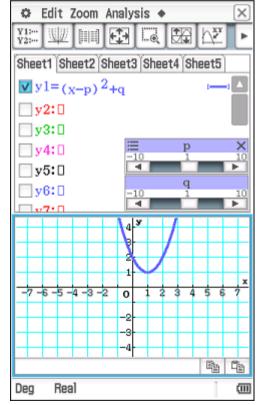
Try sliders to animate graphs in Graph and Table, Conics, Picture Plot and Geometry.

# Graph and Table

Evaluate the area trapped between the lines  $y = x^3 - 3x^2 + 2$  and y = x - 1.

Make sure your CPII OS is at least v2.





# eActivity

Use eActivities to store formulas in NumSolve strips and methods in Main strips.

Add Strip help to include notes with strip.

Download eActivities for ATAR courses from charliewatson.com/atar/

# 🗘 Edit Solve 🔶 X Solve ++ $\sqrt{\alpha}$ F=Future Value (\$) P=Principal (\$ at start) R=Rate of interest (%pa) T=Time (Years) N=Number of times interest is paid per year. Eg Annually N=1 Quarterly N=4 Equation: $F=P \cdot \left(1 + \frac{R}{100 \cdot N}\right)^{N \cdot T}$ ● F= P= 3500 R= 5.5 ○ N= 12 ○ T= 4 Deg Real 1E-10

#### Financial

With PV, PMT and FV interpret money into your pocket as +ve and money out of pocket as -ve amounts. Easy!

Compound Interest, Amortization and Interest Conversion all useful tools.

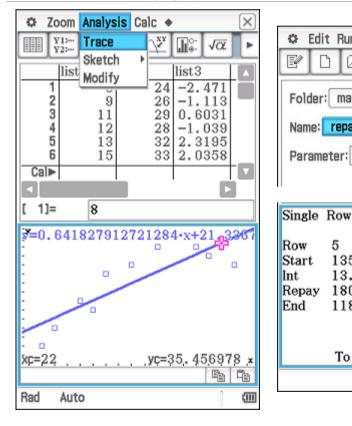
| N<br>1%               | 24<br>18                |
|-----------------------|-------------------------|
| PV                    | 16000                   |
| PMT                   | -798.7856315            |
| FV<br>P/Y             | 0 12                    |
| C/Y                   | 12                      |
| ▼Help Fo<br>Amount pa | ormat<br>id each period |

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## **Statistics**

Always type slowly and carefully!

To predict from a regression line, tap Analysis, Trace after the regression line has been graphed. Then type the xcoordinate of the required prediction and the v-Cal entry box appears. (Domain error means extrapolation, so cancel, zoom out and try again).



# Program

C Edit Run

Γ

Folder: main

Name: repayll

5

Repay 180.00

1350.34

1183.84

13.50

Parameter:

B

E/

Row

Int

End

Start

In the Program app, select required program (must first be loaded into ClassPad - no pre-loaded programs) and then tap the play button.

If program has to pause, tap play button to continue (located next to battery status icon at bottom right of screen).

# Downloads

System

Reset

a=... b=...

¥

w.

**>** ( ....

 $\sqrt{\alpha}$ 

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To continue, tap play ↓

English

Connect your CPII to your PC or Mac, select the USB Flash mode and CP will appear as a removable drive. Download eActivities, programs, pictures, csv files and so on straight from the web to the USB storage memory of ClassPad.

Import these items into the working memory of your CPII using System/View Storage & Import.

### System

Customise Name and Ending Screen.

Display Settings - lower backlight brightness to save batteries.

Power Properties/Power - Auto Off: 10 min and Backlight Duration: 30 sec.

Reset & Initialise - sort out ClassPad issues! Initialise -> factory settings.

| System 🛛   | System   |          |                         | $\times$ |
|--|--|----------|-------------------------|----------|
| Storage Main Memory eActivity  View Storage & Import  Export Variables  Export eActivities  Select | Reset<br>Initialize<br>Display Settings<br>Power Properties<br>Language<br>Imaginary Unit<br>Keyboard<br>Shift Keys<br>Memory Management<br>Ending Screen<br>Touch Panel Alignment<br>About ClassPad | <br>sion | shift<br>tivity<br>Name |          |
| glish 🛛 🗇  | English  | <br>     | ]                       | (        |