

Classpad updates

The ClassPad II [fx-CP400] features a much larger, backlit screen than the previous models, while keeping the same functionality. Major differences for this handheld are the 3D graphing and presentation applications have been replaced

by E-Con EA200 for data logging. Connectivity is much easier, and the ClassPad II acts as a USB drive when plugged into a PC. **eActivities** are a great way to store procedures. These can be downloaded and sent to the handheld model using the USB cabling (SB-67). Programs can be written and downloaded to extend the functionality of the ClassPad II. eActivities, files and programmes can also be transferred from calculator to calculator using the SB-62 cabling.

Online User manuals: <http://support.casio.com/manualfile.php?rgn=5&cid=004002012>

Visit: <http://www.classpad.com.au/index.html>

Graphic Technologies Special Promotions

Some pricing specials for term 4, 2017 and until 28/2/2018.

Product	Price per unit for term 4, 2017 and BTS (excl GST)
FX9750GII graphic calculator (monochrome) RRP \$159.95 Special	\$80.00
FX82AU+II scientific calculator RRP \$39.95 Special	\$18.50
FX991ES plus scientific calculator Special	\$50.00
FA9860B emulator software school licence [FX9750GII] Only 2 left Special	\$600.00
AAA Batteries Card of 4 (Minimum 12 cards (48) an order) Special	\$5.00
AA Batteries Card of 4 (Minimum 12 cards (48) an order) Special	\$5.00
Back up battery CR2032 [for graphic calculator] Special	\$2.00

Terms 2 & 3 2017 - Casio FX7400GII Promotion Winner

The winning school is **St Josephs Maori Girls' College** and they will be receiving this randomly drawn prize in November, 2017. **Ten FX7400GII** and a **Carry Bag**. Technical Details:

Brand	Casio
Model Number	FX-7400GII-L-EH
Item Weight	159 g
Product Dimensions	16.3 x 8.2 x 1.9 cm
Batteries:	4 AAA batteries required. (included)
Lines Per Page	8



This new model will also win you over with its very high quality, and its range of more than 396 functions. The FX-7400GII has all the mathematical functions required for secondary school level. The calculator also has a large display and is intuitive to use, featuring:

extra large monochrome 8-line display	numerical integration
complex numbers	equation solving
integer solutions (graphic application and equation application)	zero of a function, min, max, Y-intercept, Y-calculation, X-calculation
random number integers	box and zoom function
large display (64 x 128 pixels)	random number generator
list data logic function and list-based statistics	greatest and lowest common denominator function
two-dimensional statistics	permutation, combinatorics
bar and pie charts	regression analysis
conversion of sexagesimal to decimal and inverse	calculations in centesimal degree, arc degree and radian
more graphs can be displayed in a coordinates system	conversion of polar coordinates into Cartesian coordinates and inverse



FX82AU+II - Use of Verify

FX82AU+ii

Press the **MODE** button and select '3', to select the **VERIFY** mode.

```
1:COMP  2:STAT
3:VERIF
```

In **VERIFY** mode you can check mathematical statements that are of the following:

To access **VERIFY**, press [**SHIFT**], then [**6**] for access to the operators below.

```
1:=      2:≠
3:>      4:<
5:≥      6:≤
```

Enter the equation that you want to verify that is true or false and then use [=] or [>] or [≤] etc.,

```
sin(32)=cos(58)
```

TRUE

```
4+3×2≥16
```

FALSE

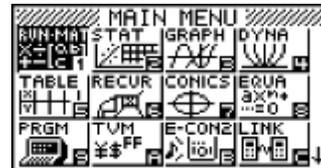


FX9750II - Use of log(a,b)

In **RUN** mode:

```
logab(10,2)
log (2)
0.3010299957
0.3010299957
```

```
logab(e^1,2)
ln (2)
0.6931471806
0.6931471806
```



The above screenshots are illustrating the connection of logarithms, base 10 and base e.

Example 1: Solve $\log_x(12) = 4$.

```
LIST MAT OPTN CALC STAT
```

Select [**OPTN**].

```
FMATH FMODE ZC logab
```

Then [**F4**] for **CALC** tools.

```
Solve S/DZ B-4DR J-DR SOLN
```

Using 'Solve' [**F1**], then [**F6**] for more choices.

```
Solve(logab(X,12)=4,X)
1.861209718
```

Then [**F4**] for 'logab'.

```
Solve(logab(X,12)=4,X)
1.861209718
```

Continue to enter the equation.

```
Solve(logab(X,12)=4,X)
1.861209718
```

With 'X)' at the end of the equation to identify the variable to be solved for.

```
Solve(logab(3,12)=X,X)
2.261859507
```

Press [**EXE**].

Example 2: Solve $\log_3(x) = 5$.



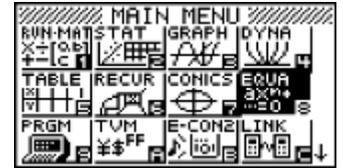
In **EQUA** mode:



Select **[F3]** for **Solver**.



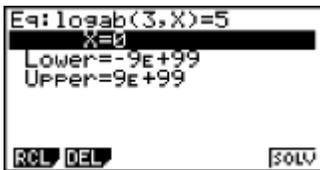
Select **[OPTN]**.



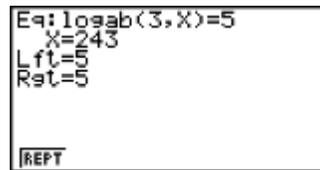
Solve $\log_3(x) = 5$.



Then **[F2]** for **CALC** tools.



Solving $\log_3(x) = 5$, **[EXE]** to store.



Press **[F6]** or **[EXE]** to solve.

Useful websites

<http://www.clarku.edu/~djoyce/trig/> Provides information on the derivation and application of trigonometry.

http://www.youtube.com/watch?v=H_7INT9oDzI All I Do Is Solve (WSHS Math Rap Song)

<https://www.youtube.com/watch?v=6Lm9EHhbJAY> Euclid's big problems!

<http://www.mathopenref.com/tocs/constructionstoc.html> Where geometrical constructions are demonstrated with supporting statements.

<http://www.shodor.org/interactivate/activities/RabbitsAndWolves/> Rabbits and Wolves and its associated applet allows you to simulate how nature keeps its balance! It shows how wolves and rabbits would behave in their natural setting. Associated Interactives can be found at: <http://www.shodor.org/interactivate/activities/>

<http://www.stats.govt.nz/infoshare/> Data bases from Statistics NZ

<http://www.studyit.org.nz/> is back in action!

A last word!

Well again, that's all I can fit onto the 4 pages! Enjoy term 4! Hope to see you at some workshops or hear from you! If you would like to contribute or have suggestions as to what you would like to have discussed via this medium, please do not hesitate to contact us either by snail-mail, email, website, telephone, text or fax.

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