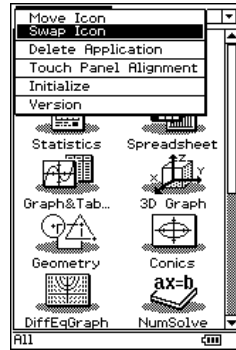


ClassPad Tips and Tricks 2013

Menu

- Use MENU/Swap Icons to bring Sequence and Finance into top half of screen.

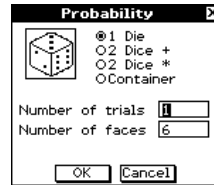


Main

- Settings, Basic Format, Number Format best as **Normal 2** to avoid scientific notation until last resort
- Quick ways to **solve** and **diff** - remember assumptions/defaults
- Shift keys - Set (-) as shift key and assign shortcuts in System

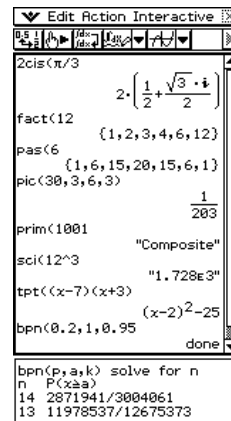
Other tips

- Use solve to rearrange equations for a variable
- Substitute using | from the OPTN menu
- Graph functions using split screen, especially those implicitly defined
- Use 'ans' for previous result/equation/expression/etc
- Use $\frac{\square}{\square}$ from $\frac{\square}{\square}$ for quick simulations
- Over-ride radians with degrees when using trig functions
- Store long expressions in variables
- Define f(x) and use for function transformation
- Solve inequalities with setup as Real not Cplx
- Use [a,b] or [x,y,z] format for quick 2D or 3D vector entry



User created Library functions - accessible in all applications and in eActivities.

- bpn(<prob of success>, <min. no. of successes>, <min. prob.>
- cis(<angle>
- fact(<whole number>
- pas(<row number>
- pic(<N objects>, <a have attribute>, <n chosen>, <x have attribute>
- prim(<whole number>
- sci(<number>
- tpt(<quadratic expression> (Quadratic in any form)
- fib(<whole number> (Decimal rather than Standard mode)

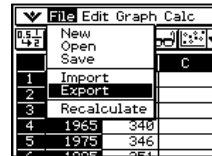


eActivities

- Split screen with Main when in a NumSolve to avoid closing strip
- Normal problems (mean/sd) using P=normCDF(L,U,S,M) in NumSolve
- Checkout 2AB, 2CD, 3AB, 3CD & 3ABS Help eActivities, and also 3AB & 3CD Specialist collections

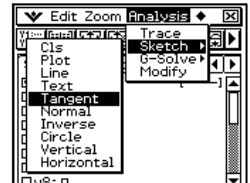
Statistics

- Predictions from trend lines using trace
- Binomial, normal and other distributions can be viewed graphically
- Open lists exported from Main, Table, Sequence and Spreadsheet



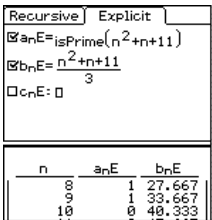
Spreadsheet

- Two types of selection before dragging - white or black cell border
- Drag and drop between spreadsheets and Office applications. Copy formulas from Excel by using Ctrl+~ to display cell contents as formulas rather than values.
- Create time series by dragging data points



Graph and Table

- Use auto-scale sensibly by setting x-min and x-max first
- Jump to any x-value on a graph by using the keyboard
- Use Sketch, Tangent to draw tangent or Inverse to draw inverse
- Create tables for any function, eg $y=nCr(n,r)$, $y=BinomialPdf(x,N,p)$, etc



Sequence

- Explicit tab useful - eg isPrime(n^2+n+11)
- Use difference and quotient tools
- Sequence RUN $\frac{\square}{\square}$ useful for quick calculations
- rSolve converts recursive formulas to explicit form

Geometry

- Draw a triangle to scale and find all sides, angles and area
- Solve coordinate geometry problems
- Learn basic constructions from Draw, Construct menu



Financial

- Set PV as -ve amount, with +ve value for PMT for loan repayments and -ve value for PMT for savings accrual. (Or vice-versa!)



System

- Customise ClassPad Name and Ending Screens (screens can be any picture saved in ClassPad)
- Shift Keys - download 'how-to' sheet from website
- Power Properties and Font Select (Regular fits more text on screen)
- Reset and Initialise - use to sort out unsolvable ClassPad issues! Initialise means back to factory settings (won't roll-back OS update though)

