Bajay's Classpad Guide

(i) Remember you can put functions within a function!

General Functions:

- solve(equation, variable)
 - keyboard → math 1 → solve
 - Will solve for the variable from the equation
 - Adding (solve() | x = y) means x will be replaced with y
 - i.e: solve given that x = y

Vector Functions

- Finding unit vector \rightarrow e.g. \hat{a} if $a = \begin{bmatrix} x \\ y \end{bmatrix}$
 - unitV([x])
 - action → vector → unitV
- Finding magnitude of $a + b \rightarrow \text{e.g.} | \begin{bmatrix} i \\ i \end{bmatrix} + \begin{bmatrix} x \\ y \end{bmatrix} |$
 - norm($\begin{bmatrix} i+x \\ j+y \end{bmatrix}$)
 - action → vector → norm
- Finding angle between two vectors
 - angle($\begin{bmatrix} i \\ j \end{bmatrix}$, $\begin{bmatrix} x \\ y \end{bmatrix}$)
 - separate vectors with a comma
 - action → vector → angle
- Solving dot product
 - dotP($\begin{bmatrix} i \\ j \end{bmatrix}$, $\begin{bmatrix} x \\ y \end{bmatrix}$)
 - action → vector → dotP

Other Important Stuff

- The factorial (!) button is found under advanced tab in the second page of the keyboard
- If you need to write something as \sqrt{x} , write out the equation twice
 - One for positive surd x and one for negative surd x