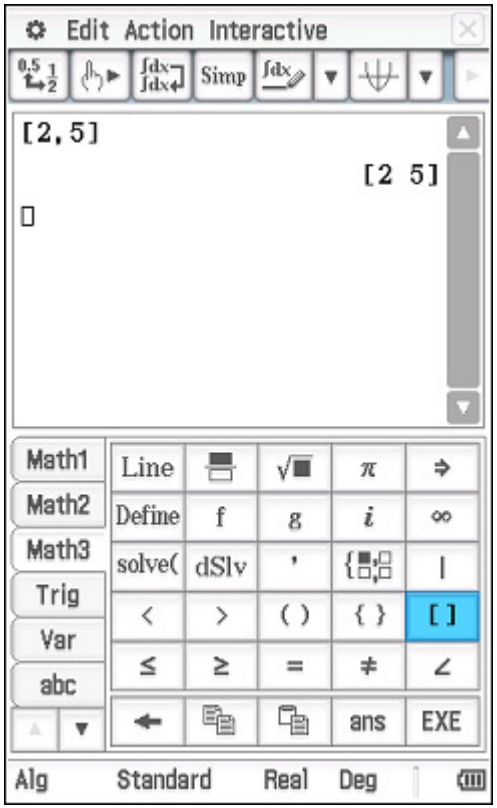
ClassPad II Help Series	Casio Education Australia - supporting Australian teachers	www.casio.edu.shriro.com.au	Author	Charlie Watson
CP180	Vector Basics		Date	April 2015
			CPII OS	02.00.2000.0000

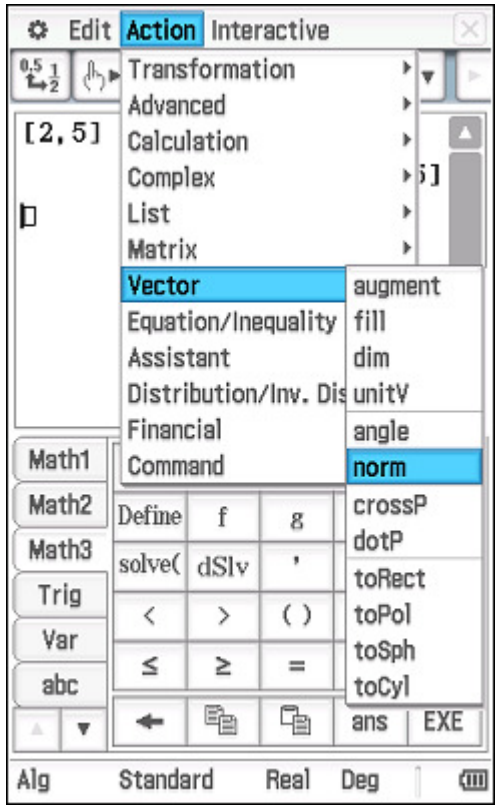
We will represent a vector $x\mathbf{i} + y\mathbf{j}$ in the form [x,y] with Classpad.

Open the Math3 keyboard, tap [ ] once, enter required components separated by a comma and tap **EXE**.

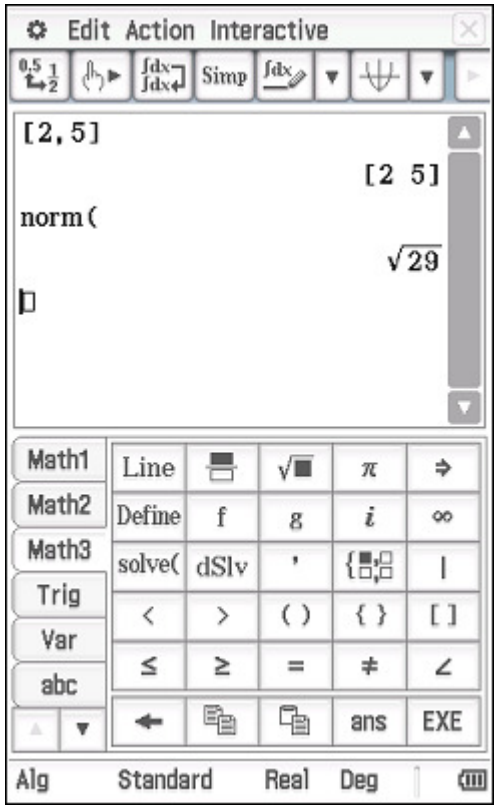
Note the comma is dropped.



To determine the magnitude of the vector, tap **Action, Vector, norm**

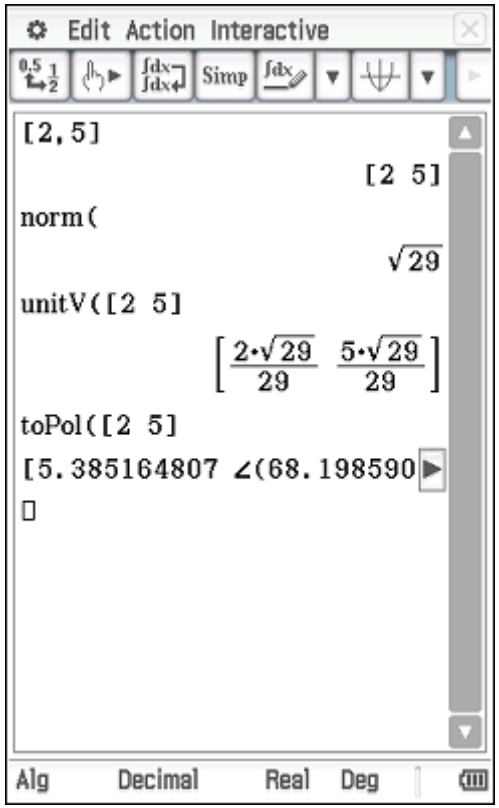


Tap EXE.



Determine a unit vector or convert into polar form in a similar way.

*Note that the use of **toPol** returns both the magnitude and direction of the vector.*



If an operation involves more than one vector, simply separate the vectors with a comma.

To determine the angle between two vectors or their dot-product, enter a comma between them.

To determine the Cartesian form of a vector given its magnitude and angle with the *x*-axis (eg 10 units at 30°) use **toRect**.

The angle must be preceded by ∠, found in the Math3 keyboard.

*Tip: Set up Shift keys for the left and right vector brackets: **[** and **]***