

Classpad Help Series sponsored by Casio Education Australia		www.casioed.net.au	
902	Algy - Squaring An Expression	Author	Charlie Watson
		Date	19 Dec 2007
		CPM OS	03.01.3000.0240

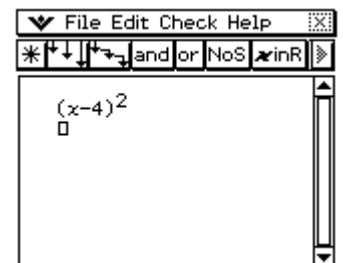
From the Main menu, tap on **Algy 2**.

Next display the Keyboard.



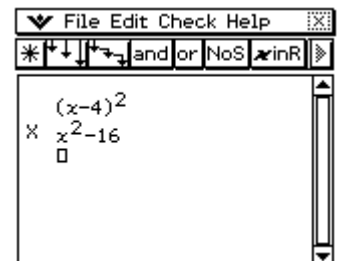
We'll use Algy to help expand the expression  $(x - 4)^2$ .

In the top cursor box enter the above expression and tap **EXE**.



We may think that the expansion is  $x^2 - 16$ , so type this onto the next line and check.

Algy says this is not correct when we tap 



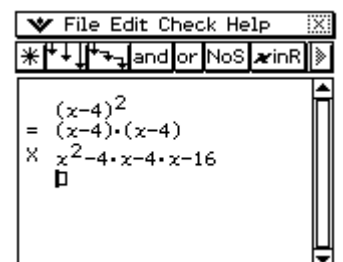
Ah, we remind ourselves that  $(x - 4)^2$  is the same as  $(x - 4)(x - 4)$

And tapping  Algy agrees.

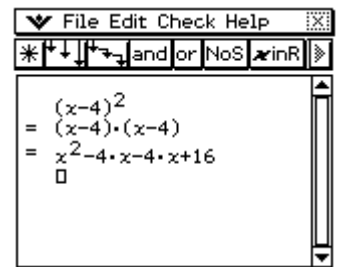


We enter our expansion of this on the next line and ask Algy to check...

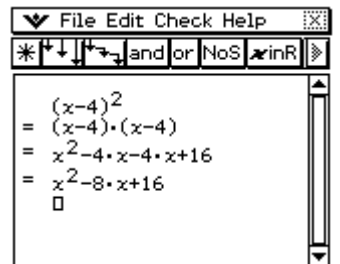
Hmmm, ah!  $-16$  should be  $+ 16$ !



And Algy agrees!

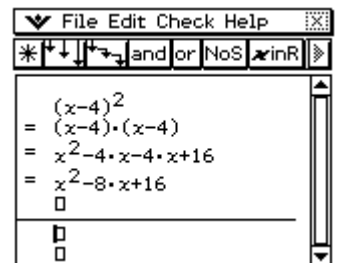


Nearly there, we think. Simplify the middle bits...



Yes!

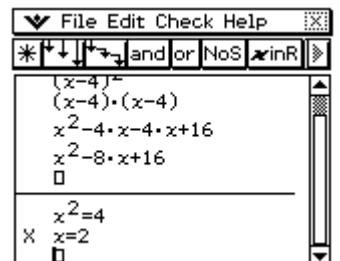
Tapping  rules off and allows us to start another problem.



Previously Algy helped us manipulate an expression.

Now how about getting Algy to help us solve the equation  $x^2 = 4$ ?

That's easy,  $x = 2$ ! Uh Oh?



Algy is quite particular about us finding ALL possible solutions.

We'd better remember to also include  $x = -2$  using 'or'.

