

Solving Simultaneous Linear Equations – using the 2D template

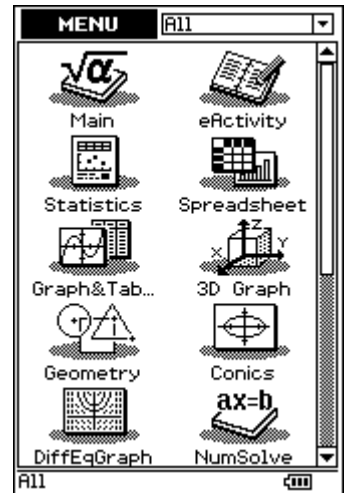
Solve simultaneously:

$$\begin{aligned} 2x - 3y &= -1 \\ x + y &= 7 \end{aligned}$$

These can be solved algebraically in three main ways:

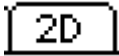
- i. Interactively step by step in the main screen
- ii Using the 2D template
- iii Using the Solve command from the embedded screen menus.

This task uses the second option.



Tap the Main screen icon

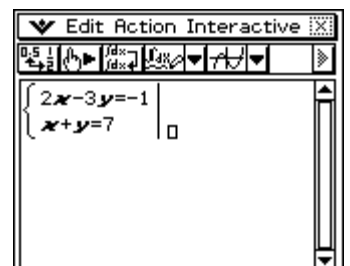
Press **Keyboard**

Tap 

Tap 



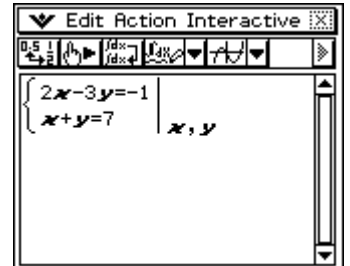
Enter the equations into the 2 spaces just to the LEFT of the vertical bar.



Then after the vertical bar :

Type x, y

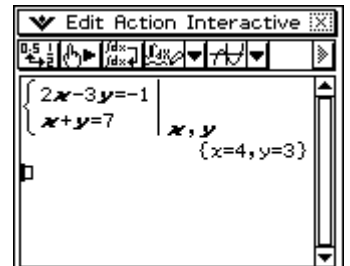
(This tells the ClassPad you wish to solve for x and y)



Press or tap **EXE**

This gives the solution $x = 4, y = 3$.

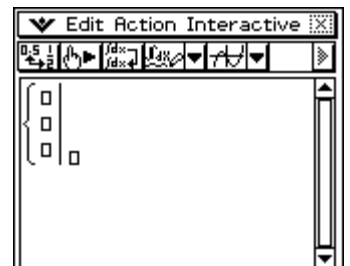
(The curly brackets suggests that this is a set of values)



If we wished to solve 3 equations in 3 variables, we would tap



This will then allow 3 equations to be entered.



For example, solve simultaneously:

$$3x - 5y + 8z = -32.5$$

$$x + 2y - 4z = 16.5$$

$$-7x + 3y + z = -0.5$$

