ClassPad II Help Series	Casio Education Australia - supporting Australian teachers	www.casio.edu.shriro.com.au	Author	Charlie Watson
CP345	Linear Programming		Date	April 2015
			CPII OS	02.00.2000.0000

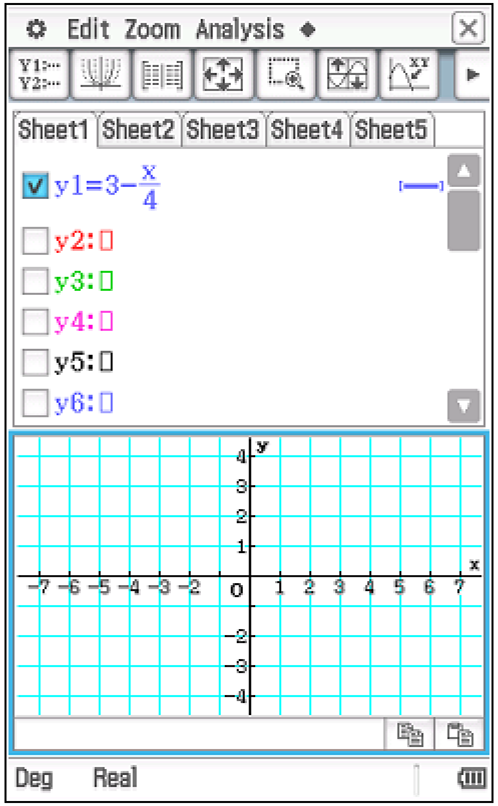
Start in Graph and Table.

We will find the maximum value of $5x+15y$ given the four constraints

$y\le 3-\frac{x}{4},\ y\le 6-x,\ y\ge 1,\ x\ge 2$

Tap **Edit, Clear All**.

Enter $3-x/4$ for **y1** and tap **EXE**.

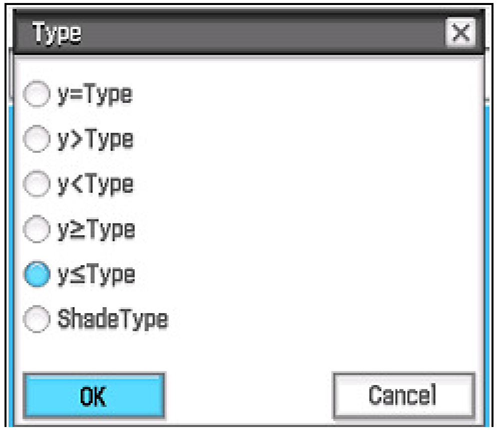


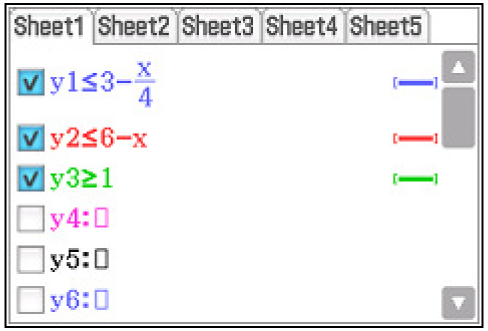
Tap onto the = sign in the **y1** line.

The Type box opens. Modify the type to suit the inequality as shown.

Tap **OK**.

Now enter both of **y2** and **y3** and modify the type for each.



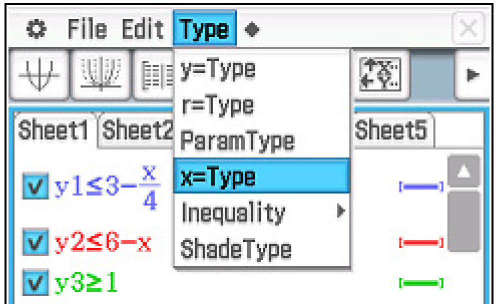


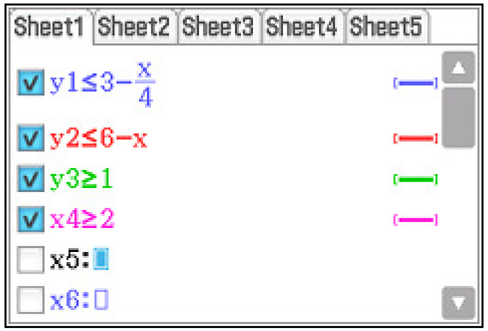
Tap into the box for **y4**.

Tap Type and tap x=Type.

(This sets all functions from now on to be this type. When finished, tap Edit, Clear All or Type, $y=Type$ *to reset.)*

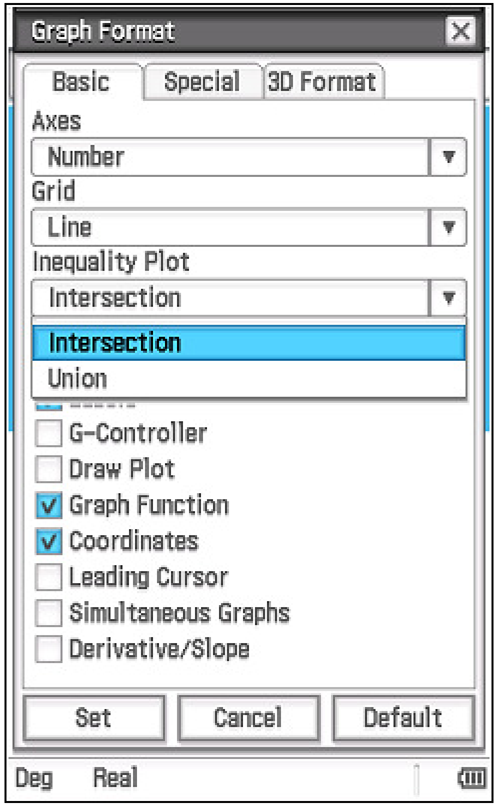
Complete **x4** by entering a 2, modify the Type to an inequality and tap **EXE**.





Tap Settings, Graph Format and modify the Inequality Plot to **Intersection**.

Tap Set to confirm.



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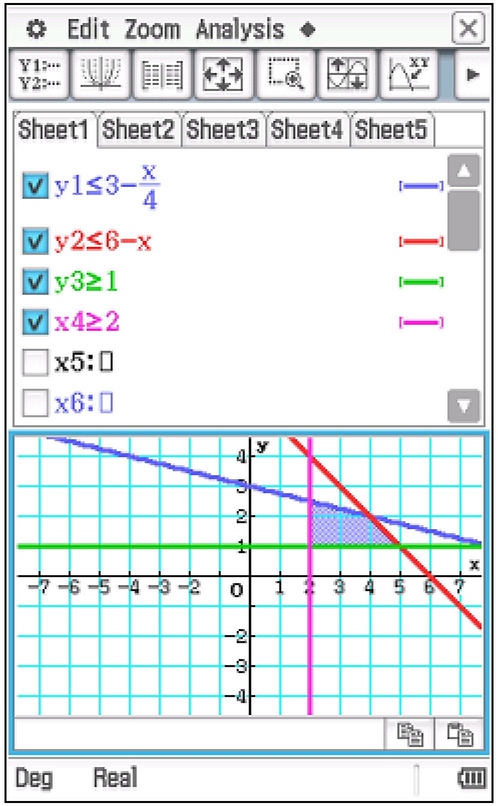
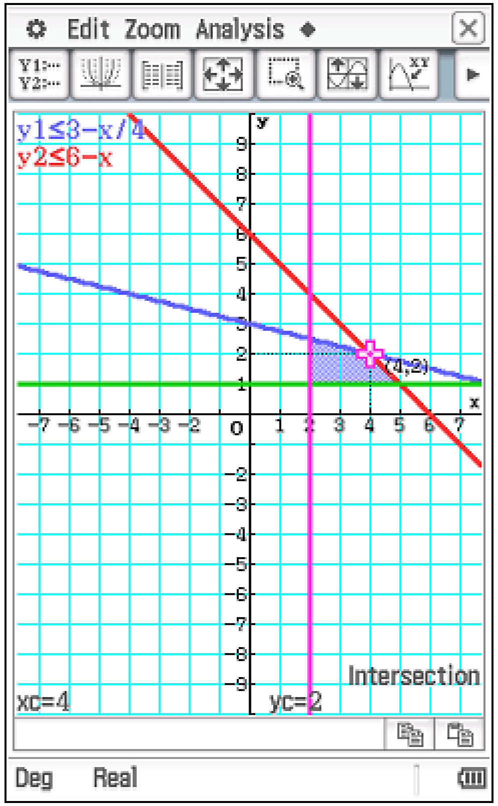
Tap the Draw Graph icon .



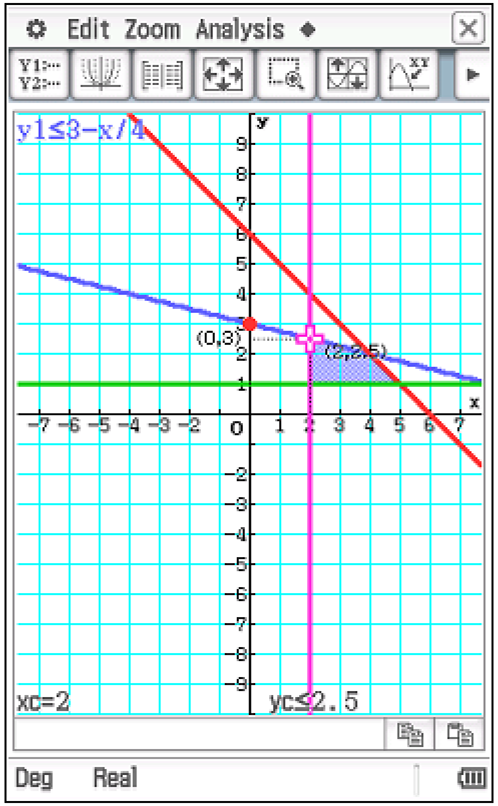
Find the corners of the feasible region using **Analysis, G-Solve, Intersection**.

(Note that with multiple lines drawn, use the up/down cursor control to select the first line, tap EXE and repeat to select the second line.)



Classpad will only find intersection points of **y=** function types, not **x=**.

To find the corners on the **x=** line, tap **Analysis, Trace** and use the up/down cursor to select one of the sloping **y=** lines. Then press the **2** key to open the **Enter x-value** box and tap **OK**.



Record the coordinates of the 3 vertices likely to maximise the objective function and open the Main application.

A possible way to determine the optimum value using matrices is shown.