



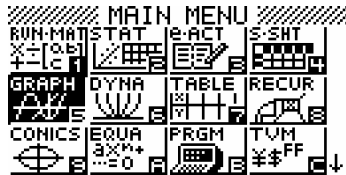
CASIO

eLearning Activities



SOLVING SYSTEMS OF EQUATIONS

EXAMPLE: $-2x + y = -4$
 $2x + y = -4$



From the main menu select GRAPH and **EXE**

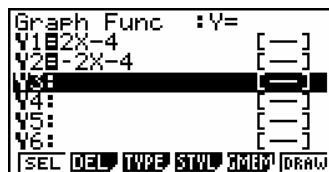
Clear out any existing equations by highlighting them and pressing

F2 **F1** .

Set the View Window by pressing **SHIFT** **F3** **F3** **EXIT** .

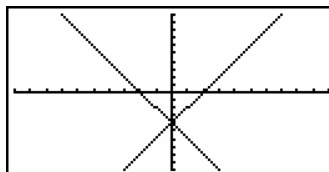


You should see this screen.

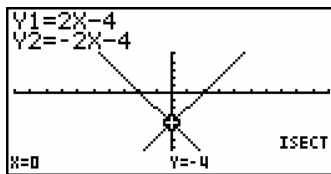


Manually, with paper and pencil, solve the first equation for y. Enter the equation, $y = 2x - 4$ into Y1. **2** **X,θ,T** **=** **4** **EXE**

Solve the second equation for y. Enter the equation, $y = -2x - 4$, into Y2. **(-)** **2** **X,θ,T** **=** **4** **EXE**



Push **F6** DRAW



To find the point of intersection , press **SHIFT** **F5** **F5** .

The solution to the system is (0, -4).

Practice Problems

$$-x + y = 6$$

$$4x + y = 8$$

$$2x - 4y = 7$$

$$x + 6y = 18$$

Solutions

$$(.4, 6.4)$$

$$\left(\frac{57}{8}, \frac{29}{16}\right) \text{ or } (7.125, 1.8125)$$