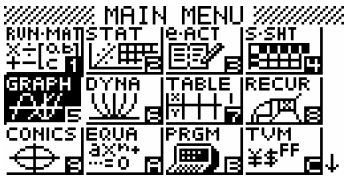
CASIO
eLearning Activities

SOLVING SYSTEMS OF EQUATIONS

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

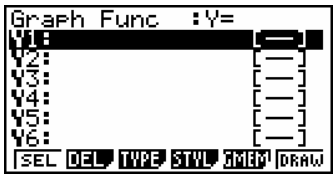


From the main menu select GRAPH and EXE

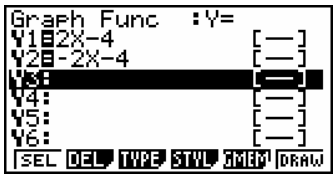
Clear out any existing equations by highlighting them and pressing

F2 F1 .

Set the View Window by pressing SHIFT F3 F3 EXIT .

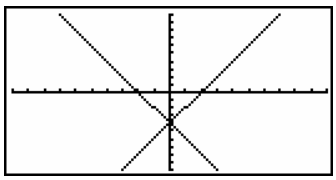


You should see this screen.

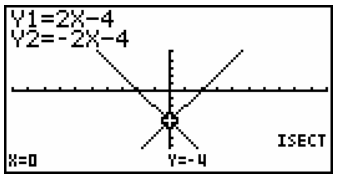


Manually, with paper and pencil, solve the first equation for y. Enter the equation, $y = 2x - 4$ into Y1. 2 X,θ,T − 4 EXE

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

$(.4,\ 6.4)$

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