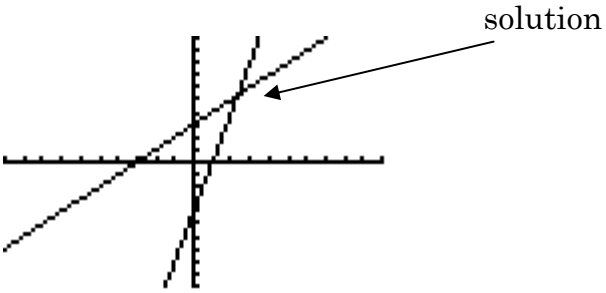
Enrichment
Objective 4.03
Finding the Solution of Linear Systems

Use your graphing calculator to find the solution of the system.
*The solution is where the two lines intersect.

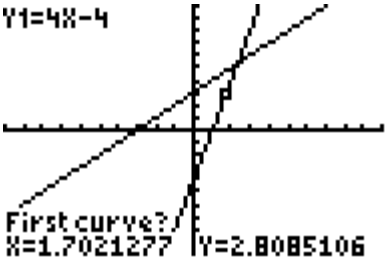
$y = 4x - 4$
$y = x + 3$

Step 1: Enter equations in Y=
Step 2: Graph

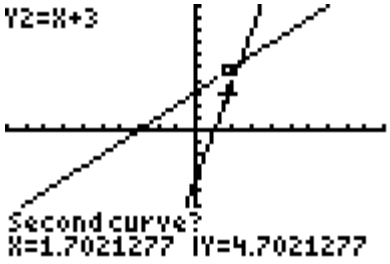


Step 3: 2nd Trace (Calc) #5: intersect

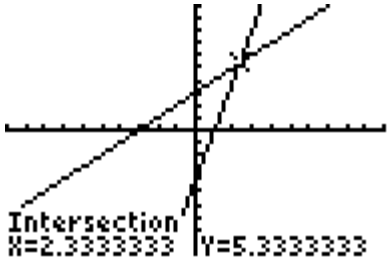
First curve? Enter



Second curve? Enter



Guess? Enter



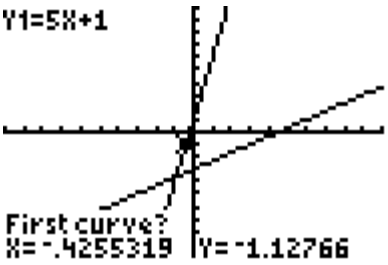
The solution of the system is (2.3, 5.3) or $(2\frac{1}{3}, 5\frac{1}{3})$

Let's try another one:

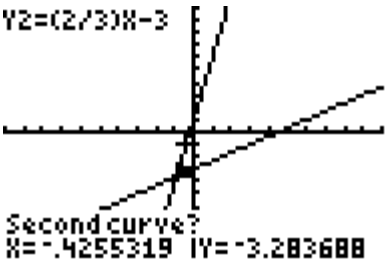
y= 5x + 1

y= $\frac{2}{3}$x – 3

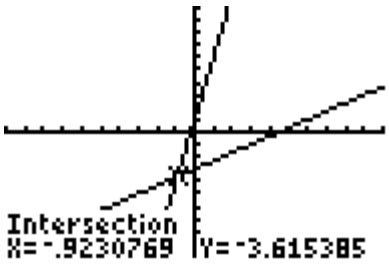
First curve? Enter



Second curve? Enter



Guess? Enter



The solution is (-.92, -3.6)

You try:

1. y = 3.2x + 4.5
   y = -8.7x- 6.1

2. y = -0.2x+2
   y = 0.3x+4

3. y = 5x-2.5
   y = 0.5x-1

Answers: 1. (-.9, 1.6) 2. (-4, 2.8) 3. (.33, -.83)