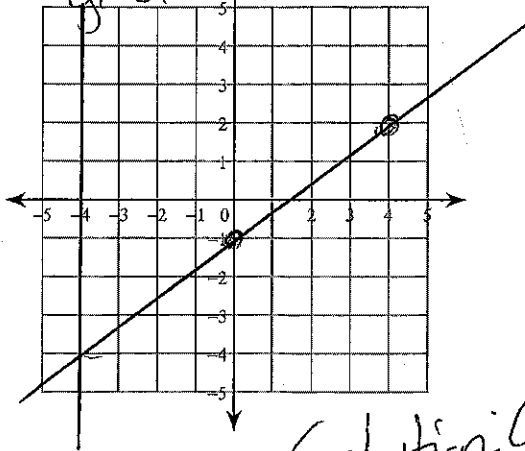


Solving Systems of Equations by Graphing

Solve each system by graphing.

1) $y = \frac{3}{4}x - 1$ $\begin{array}{r|rr|r} x & 0 & 4 & 8 \\ \hline y & -1 & 2 & 5 \end{array}$

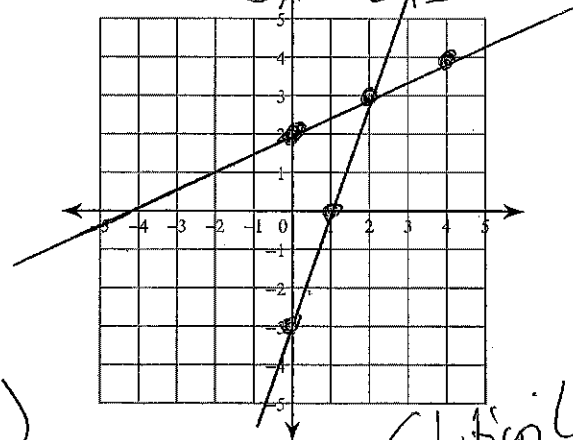
$x = -4$ $\begin{array}{r|rr|r} x & -4 & -4 & -4 \\ \hline y & -4 & -4 & -4 \end{array}$



Solution: (-4, -4)

2) $y = \frac{1}{2}x + 2$ $\begin{array}{r|rr|r} x & 0 & 2 & 4 \\ \hline y & 2 & 3 & 4 \end{array}$

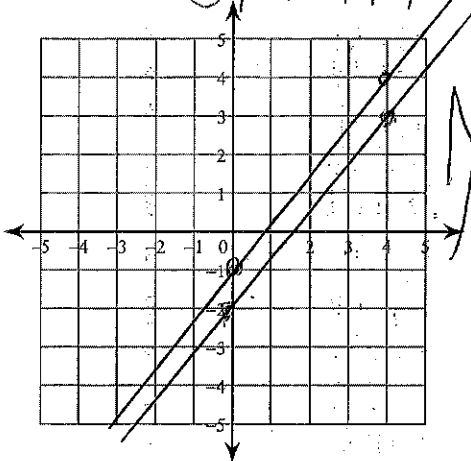
$y = 3x - 3$ $\begin{array}{r|rr|r} x & 0 & 1 & 2 \\ \hline y & -3 & 0 & 3 \end{array}$



Solution: (2, 3)

3) $y = \frac{5}{4}x - 2$ $\begin{array}{r|rr|r} x & 0 & 4 & 8 \\ \hline y & -2 & 3 & 8 \end{array}$

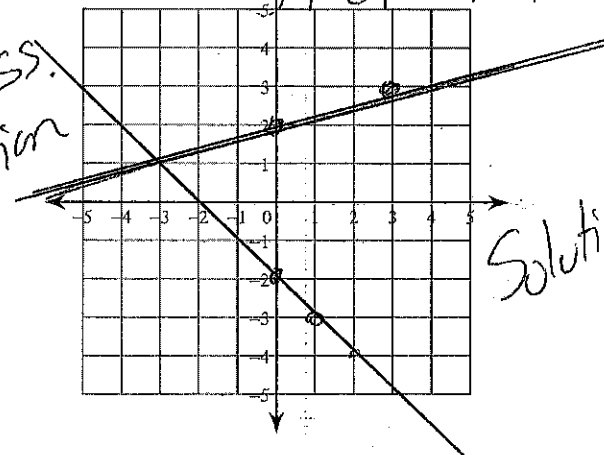
$y = \frac{5}{4}x - 1$ $\begin{array}{r|rr|r} x & 0 & 4 & 8 \\ \hline y & -1 & 4 & 9 \end{array}$



Never cross.
No solution

4) $y = \frac{1}{3}x + 2$ $\begin{array}{r|rr|r} x & 0 & 3 & 6 \\ \hline y & 2 & 3 & 4 \end{array}$

$y = -x - 2$ $\begin{array}{r|rr|r} x & 0 & 1 & 2 \\ \hline y & -2 & -3 & -4 \end{array}$



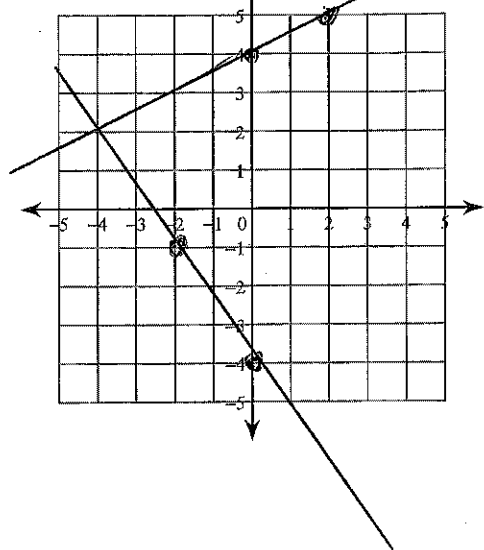
Solution: (-3, 1)

5) $y = -\frac{3}{2}x - 4$

x	0	2	4
y	-4	-7	-10

$y = \frac{1}{2}x + 4$

x	0	2	4
y	4	5	6

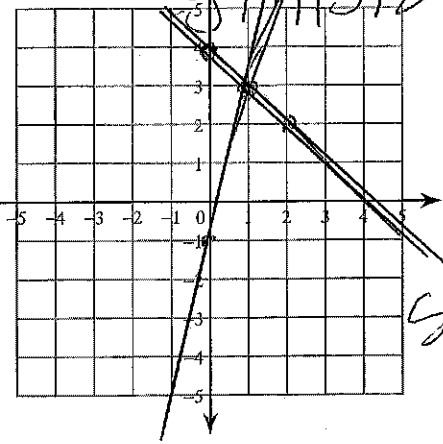


Solution: $(-4, 2)$

6) $y = 4x - 1$
 $y = -x + 4$

x	0	1	2
y	-1	3	7

x	0	1	2
y	4	3	2



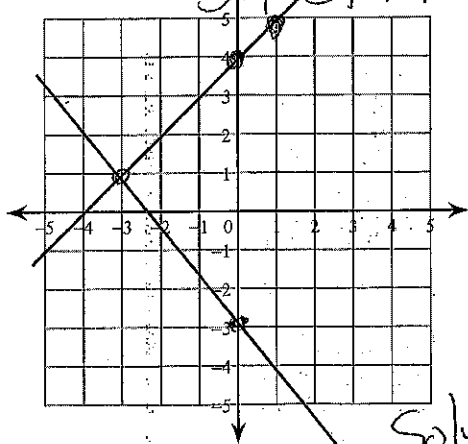
Solution: $(1, 3)$

7) $y = x + 4$

x	0	1	2
y	4	5	6

$y = -\frac{4}{3}x - 3$

x	0	3	6
y	-3	-7	-11



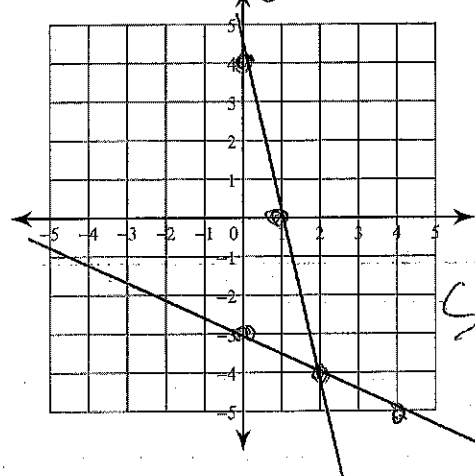
Solution: $(-3, 1)$

8) $y = -4x + 4$

x	0	1	2
y	4	0	-4

$y = -\frac{1}{2}x - 3$

x	0	2	4
y	-3	-4	-5



Solution: $(2, 4)$