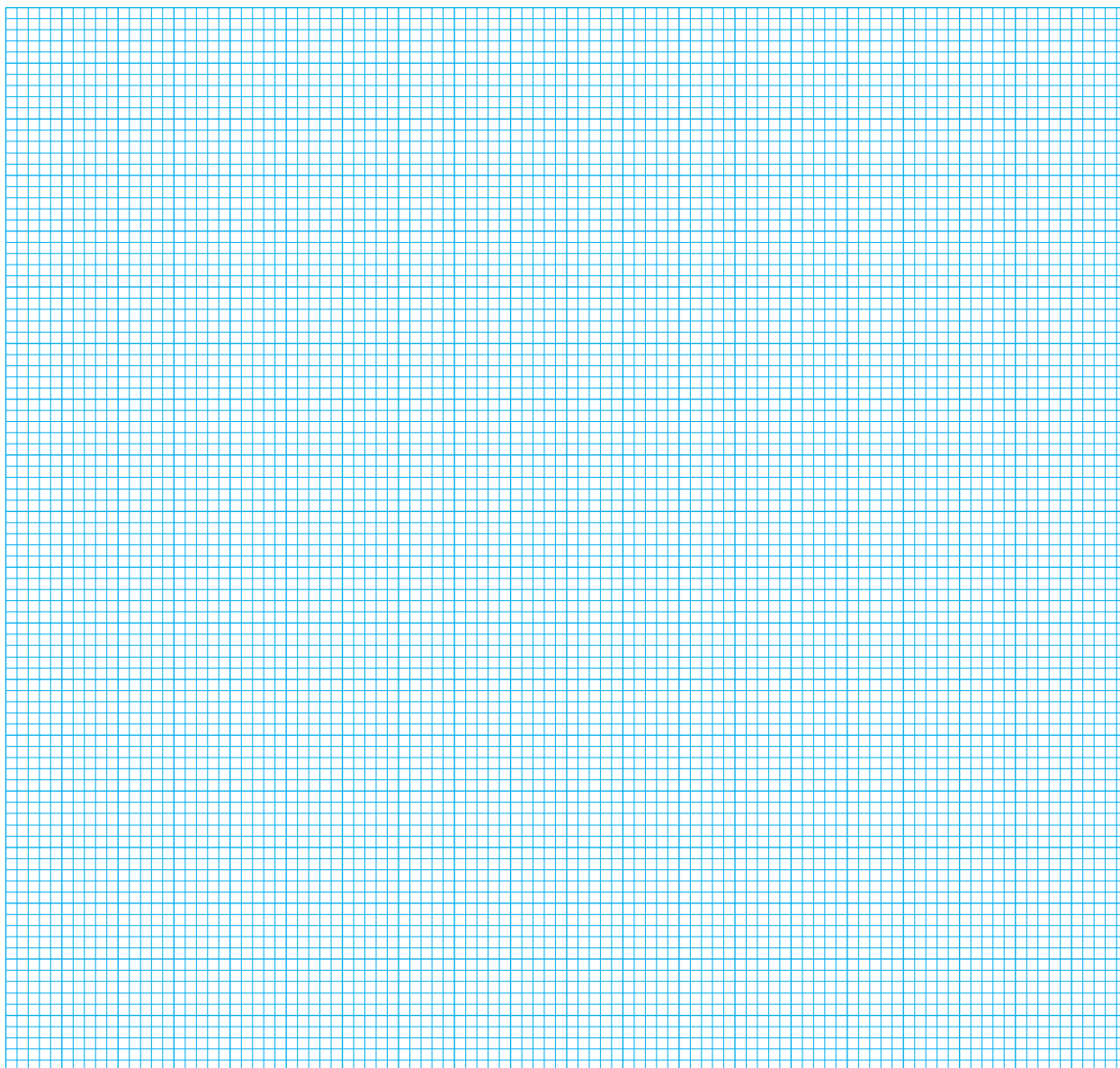


Graphs of Linear Equations in Two Unknowns

1. Using 2 cm to represent 1 unit on both axes for $-3 \leq x \leq 4$, solve the pair of simultaneous equations below graphically.

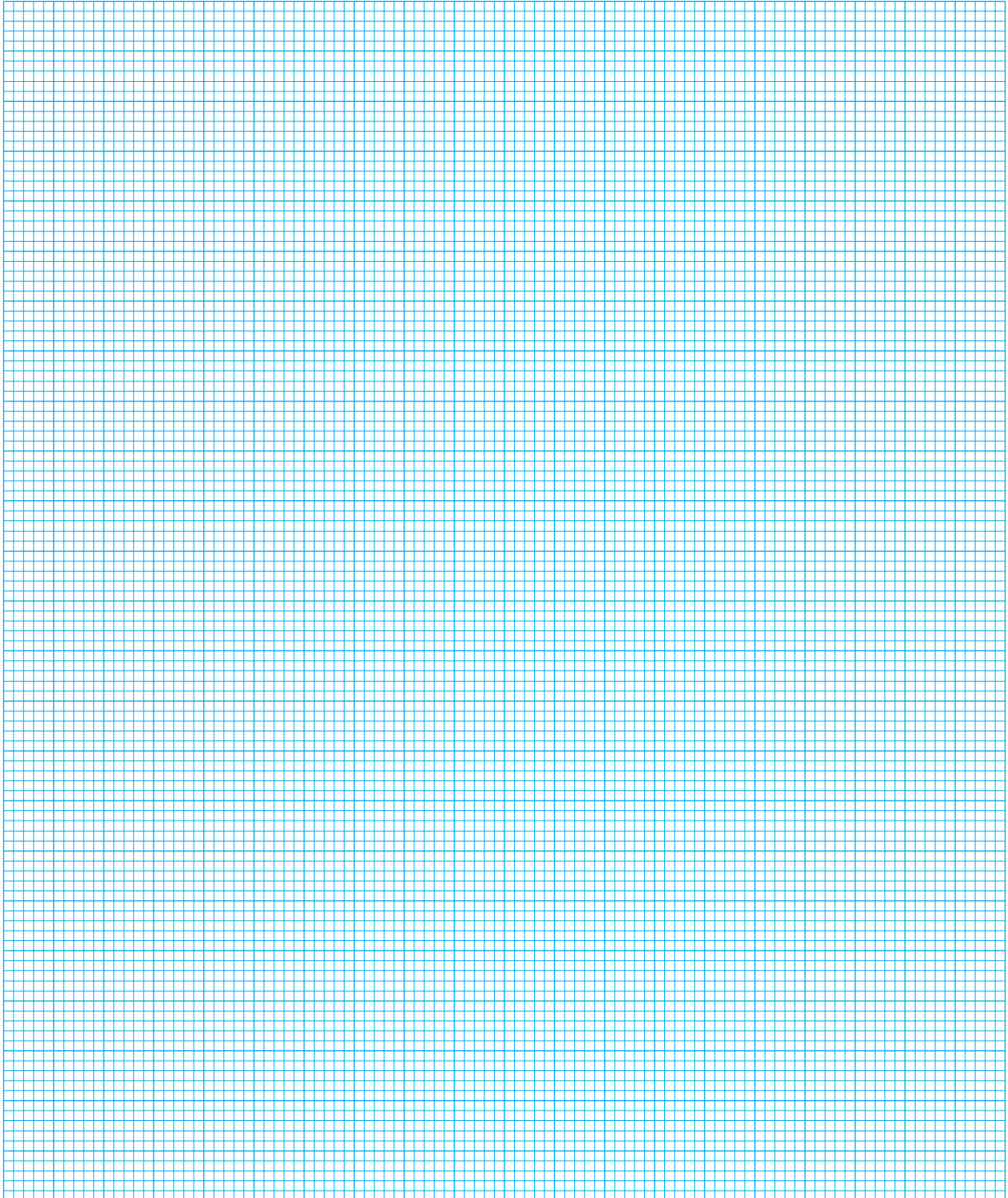
$$\begin{aligned}x - 3y + 5 &= 0 \\3x + 6y - 22.5 &= 0\end{aligned}$$



2. (a) On the same graph paper, draw the graphs of the equations $3y = -4x + 20$ and $3y = x + 10$ for $-4 \leq x \leq 4$.
(b) Hence, solve, graphically, the simultaneous equations.

$$3y = -4x + 20$$

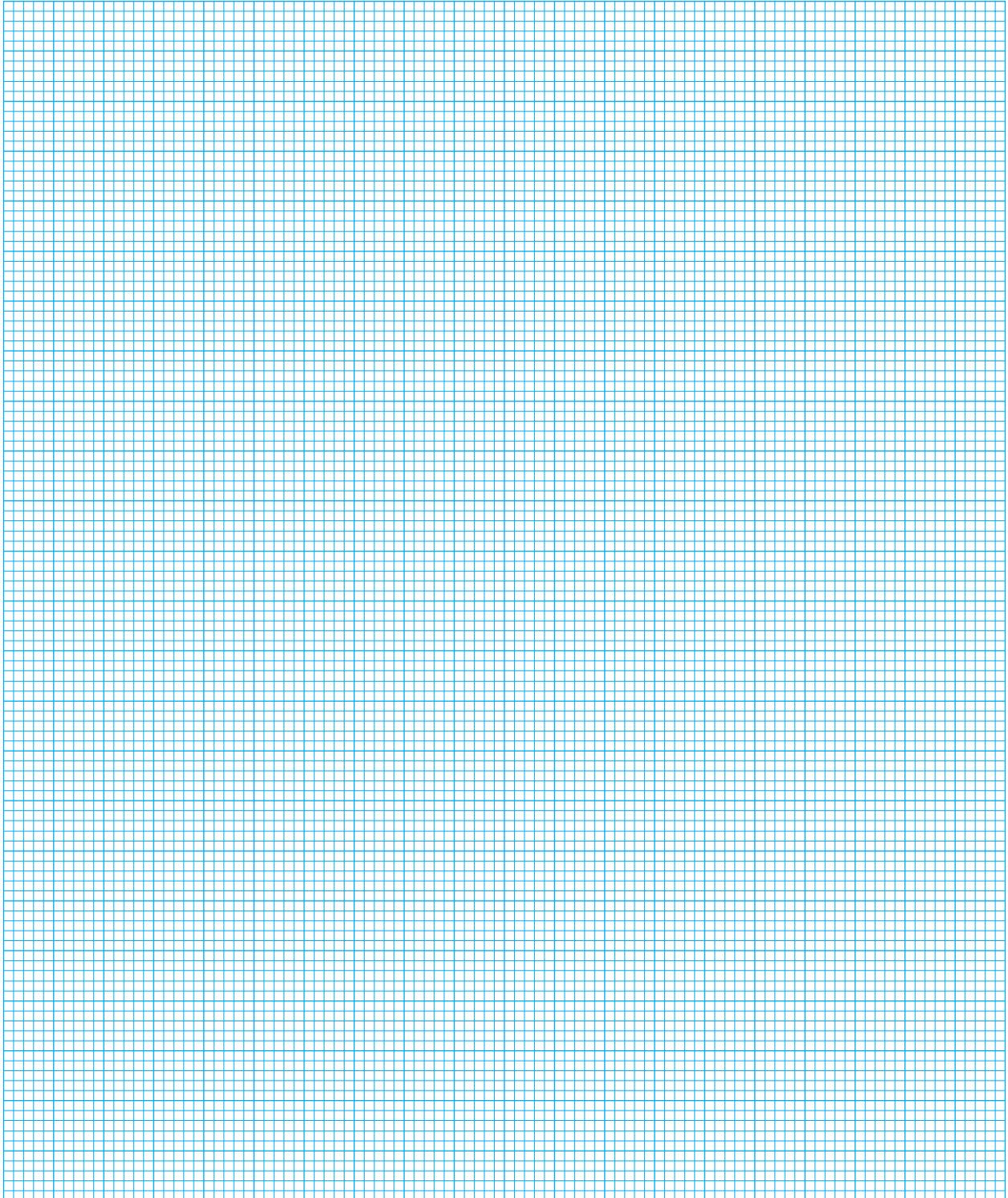
$$3y = x + 10$$



3. Using 2 cm to represent 1 unit on y -axis and 1 cm to represent 1 unit on x -axis for $-6 \leq x \leq 6$, solve the pair of simultaneous equations by the graphical method.

$$5y + 4x = 23$$

$$3y - x = 24$$



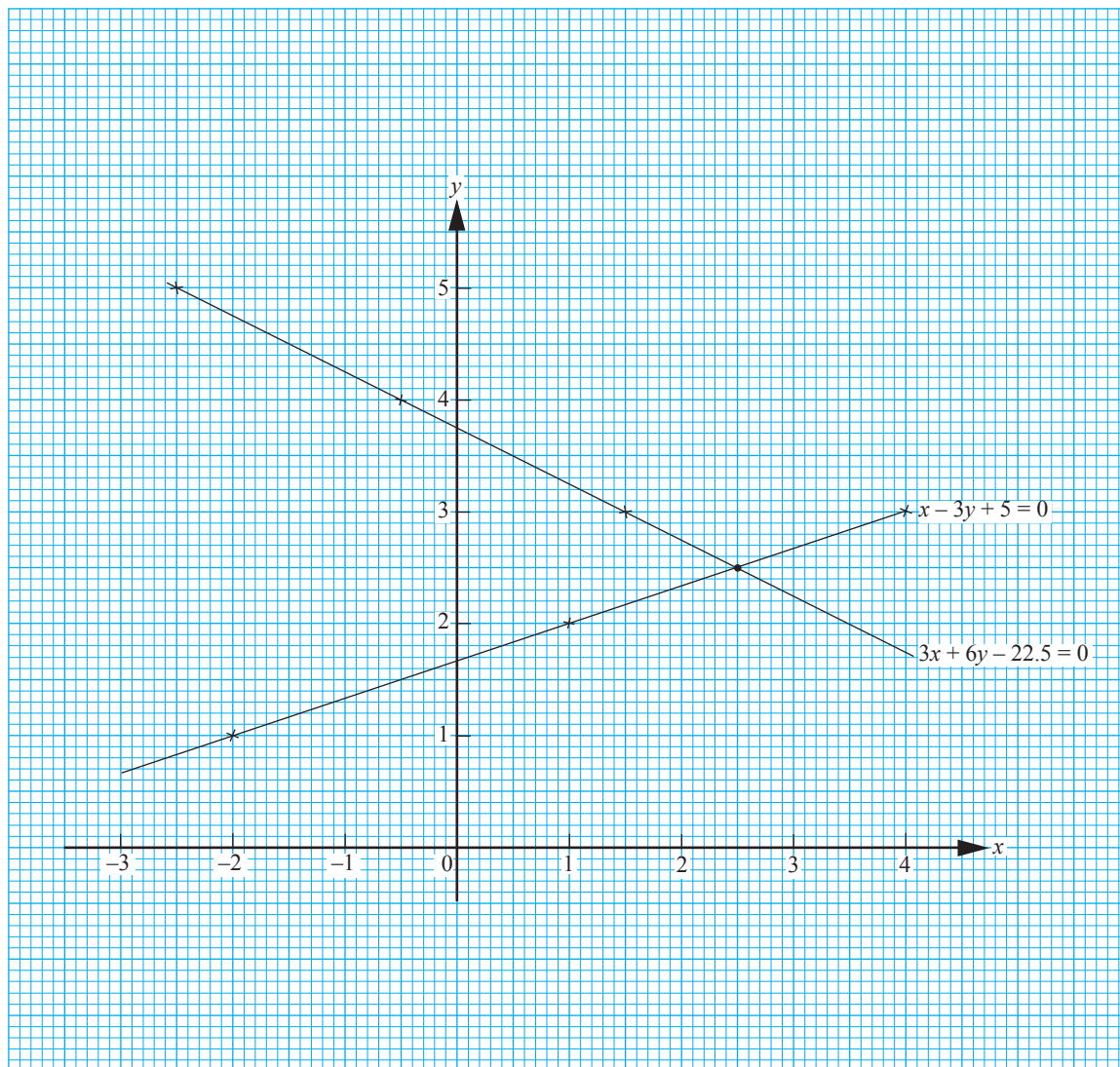
Graphs of Linear Equations in Two Unknowns

1. $x - 3y + 5 = 0$

x	-2	1	4
y	1	2	3

$3x + 6y - 22.5 = 0$

x	-2.5	-0.5	1.5
y	5	4	3



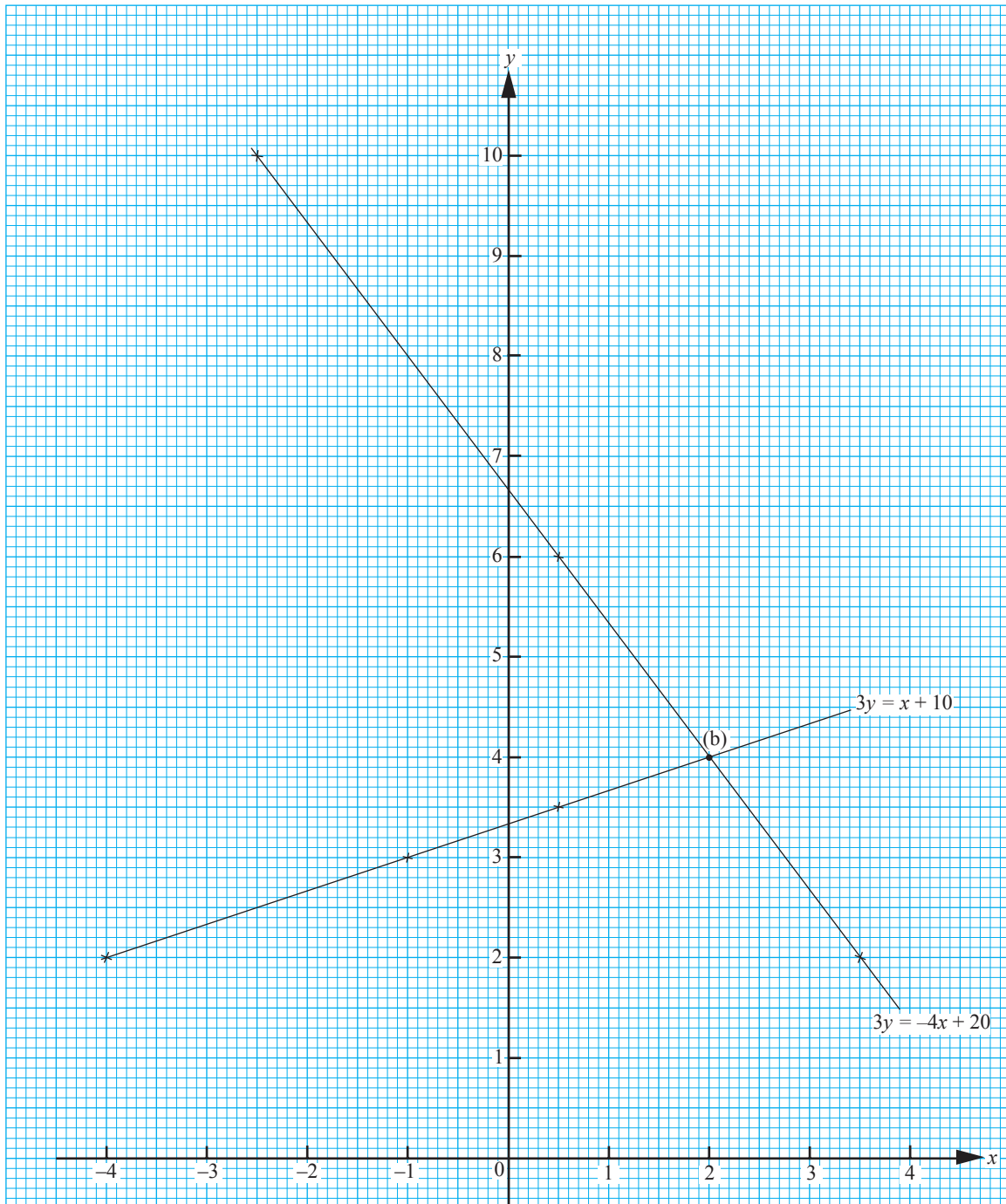
The solution is $x = 2.5, y = 2.5$.

2. (a) $3y = -4x + 20$

x	-2.5	0.5	3.5
y	10	6	2

$3y = x + 10$

x	-4	-1	0.5
y	2	3	3.5



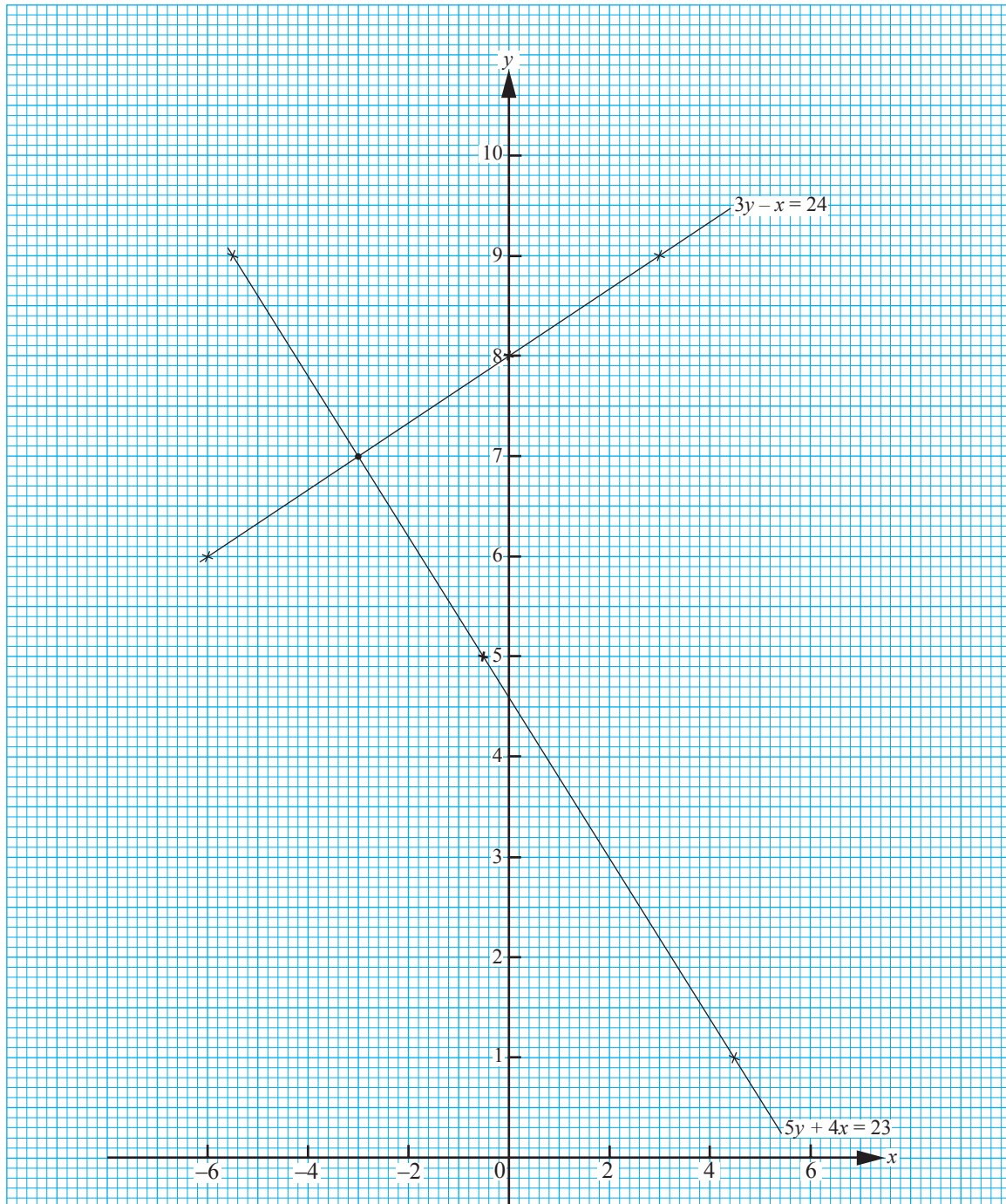
(b) The solution is $x = 2, y = 4$.

3. $5y + 4x = 23$

x	-5.5	-0.5	4.5
y	9	5	1

$3y - x = 24$

x	-6	0	3
y	6	8	9



The solution is $x = -3, y = 7$.