

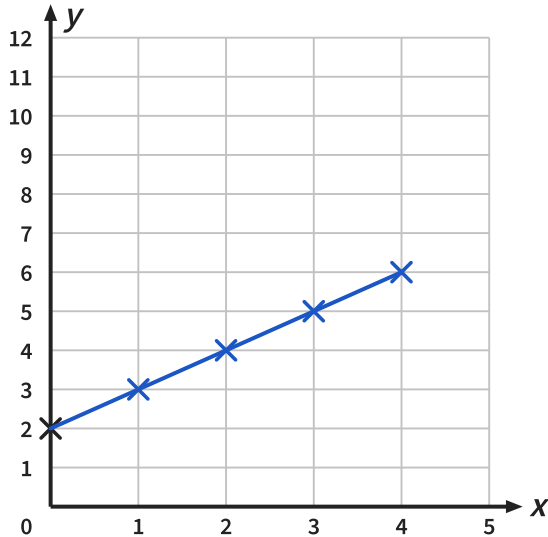
Plotting Straight-Line Graphs

ANSWERS

1

Draw the graph of $y = x + 2$.

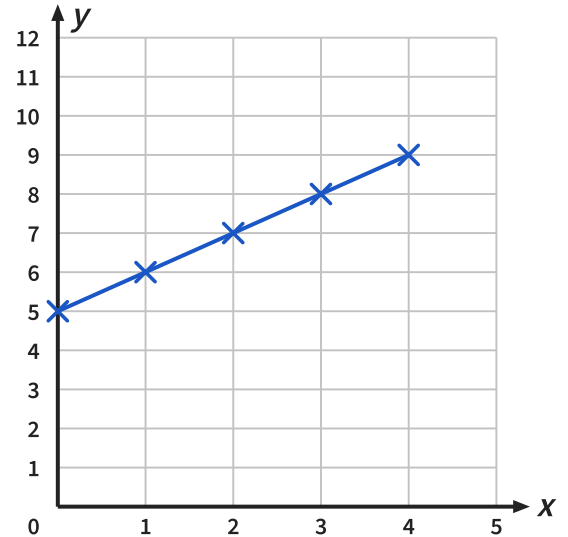
x	0	1	2	3	4
y	2	3	4	5	6



2

Draw the graph of $y = x + 5$.

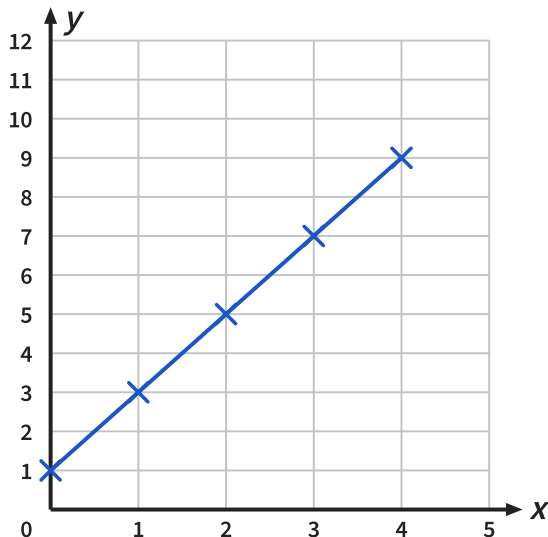
x	0	1	2	3	4
y	5	6	7	8	9



3

Draw the graph of $y = 2x + 1$.

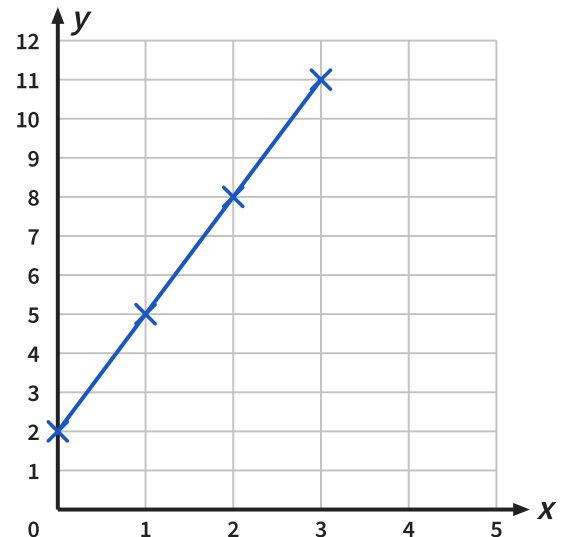
x	0	1	2	3	4
2x	0	2	4	6	8
y	1	3	5	7	9



4

Draw the graph of $y = 3x + 2$.

x	0	1	2	3
3x	0	3	6	9
y	2	5	8	11



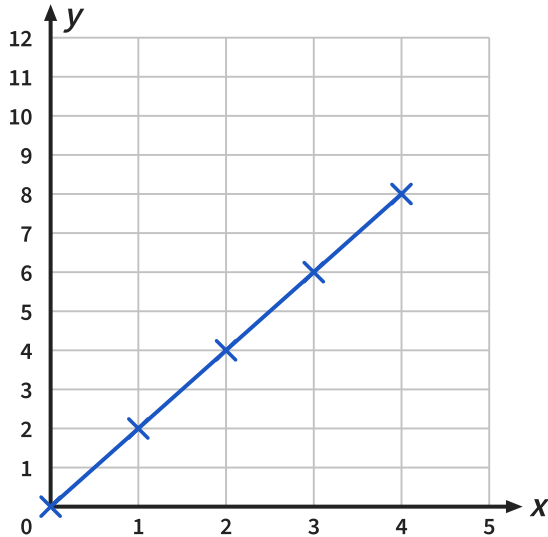
Plotting Straight-Line Graphs

ANSWERS

5

Draw the graph of $y = 2x$.

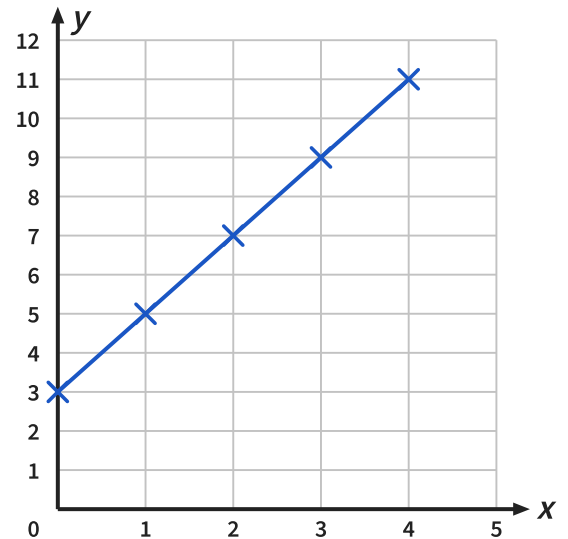
x	0	1	2	3	4
y	0	2	4	6	8



6

Draw the graph of $y = 2x + 3$.

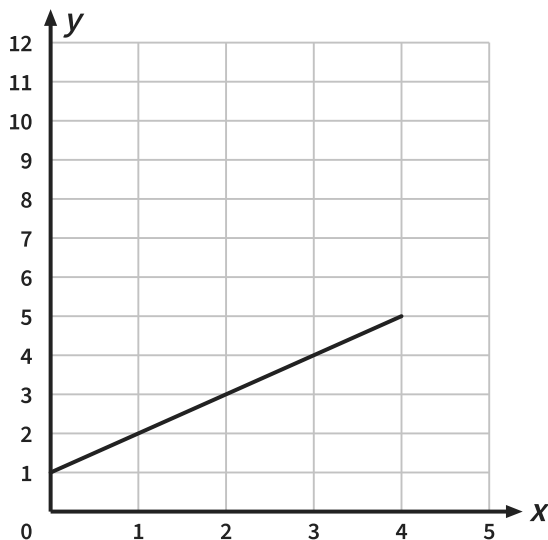
x	0	1	2	3	4
2x	0	2	4	6	8
y	3	5	7	9	11



7

Complete the table for this line.

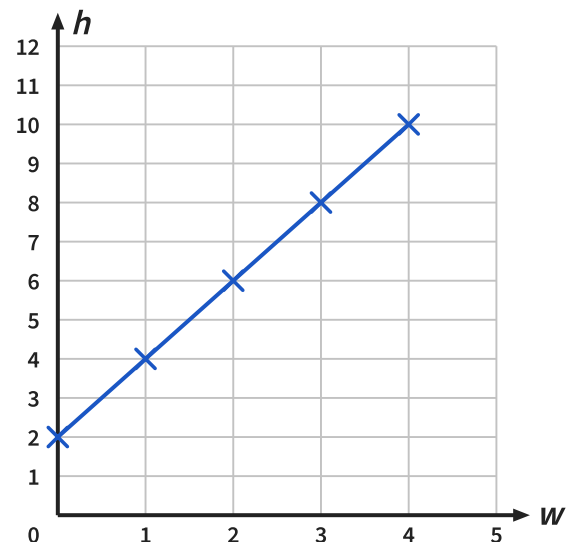
x	0	1	2	3	4
y	1	2	3	4	5



8

A plant is h cm tall after w weeks. $h = 2w + 2$.
Draw the graph.

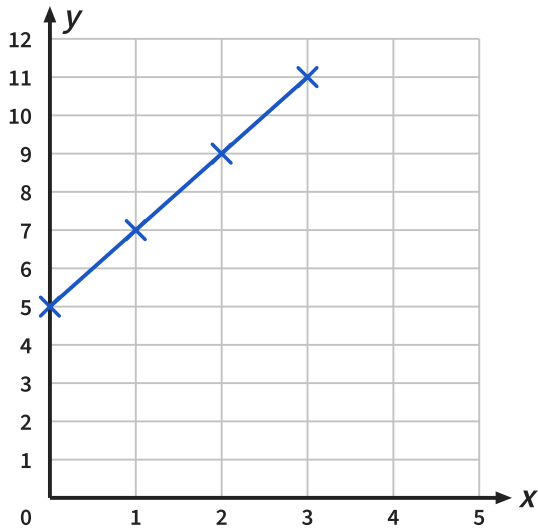
w	0	1	2	3	4
2w	0	2	4	6	8
h	2	4	6	8	10



9

Draw the graph of $y = 2x + 5$.

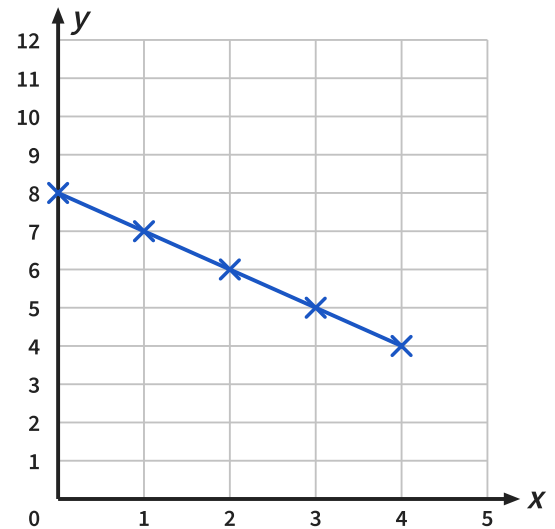
x	0	1	2	3
2x	0	2	4	6
y	5	7	9	11



10

Draw the graph of $y = 8 - x$.

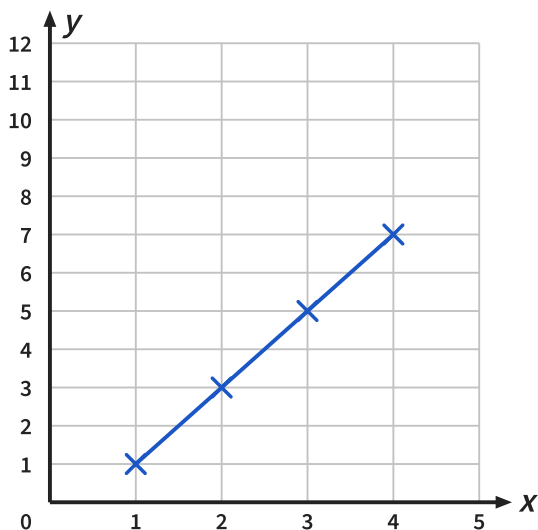
x	0	1	2	3	4
y	8	7	6	5	4



11

Draw the graph of $y = 2x - 1$.

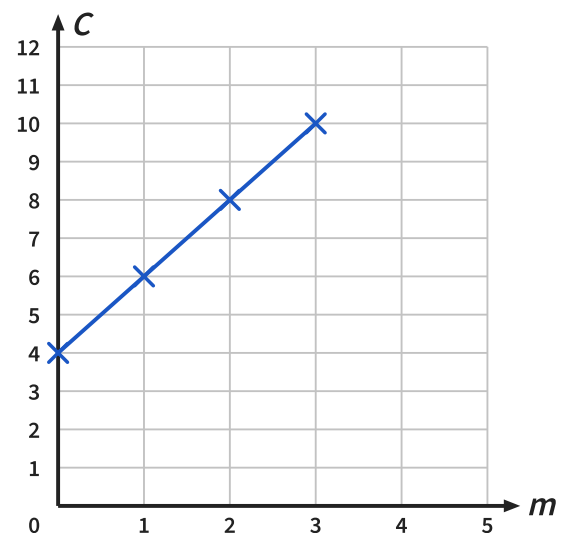
x	1	2	3	4
2x	2	4	6	8
y	1	3	5	7



12

A taxi costs £C for m miles. $C = 2m + 4$.
Draw the graph.

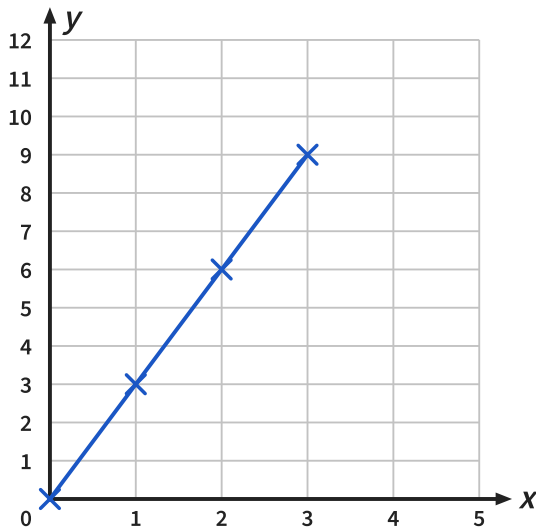
m	0	1	2	3
2m	0	2	4	6
C	4	6	8	10



13

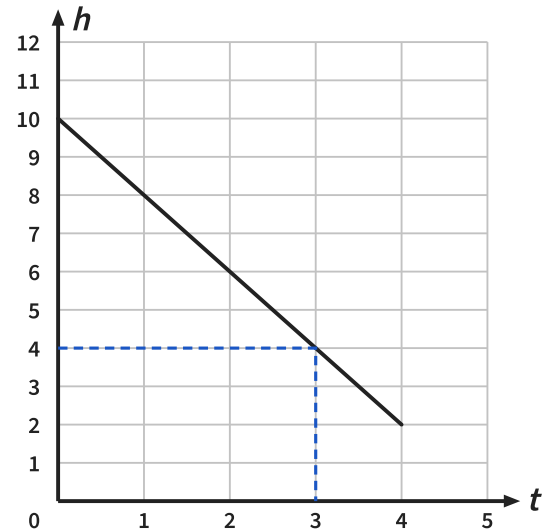
Draw the graph of $y = 3x$.

x	0	1	2	3
y	0	3	6	9



14

A candle burns down. The graph shows its height, h cm, after t hours. When is the candle 4 cm tall?

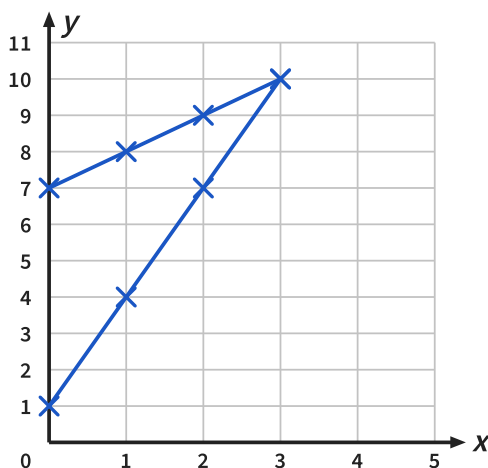


$t =$ 3 hours

15

Draw $y = x + 7$ and $y = 3x + 1$. Where do the lines cross?

x	0	1	2	3
$y = x + 7$	7	8	9	10
$y = 3x + 1$	1	4	7	10

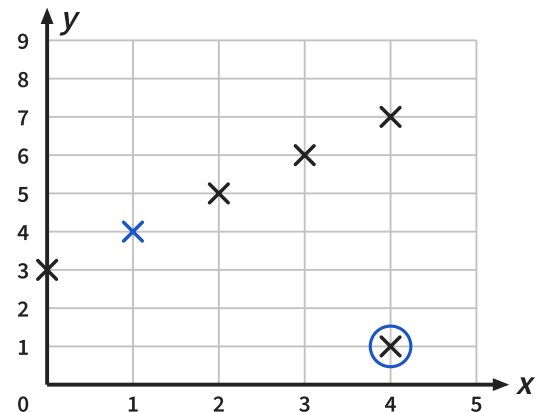


The lines cross at (3 , 10)

16

Ali plots $y = x + 3$. One point is wrong. What has Ali done wrong?

x	0	1	2	3	4
y	3	4	5	6	7



Ali has plotted (4, 1), the wrong way round.

It should be (1, 4).