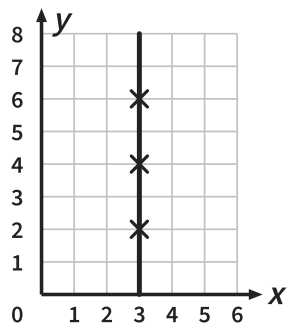


The Equation of a Line from its Graph

ANSWERS

1

Find the equation of the line.

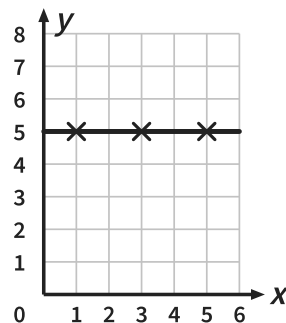


x	3	3	3
y	2	4	6

$$x = 3$$

2

Find the equation of the line.

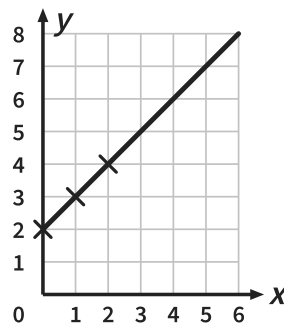


x	1	3	5
y	5	5	5

$$y = 5$$

3

Find the equation of the line.

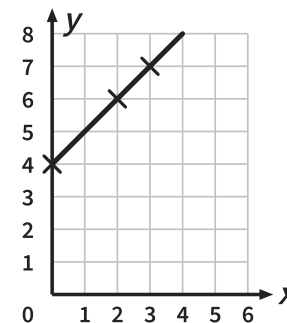


x	0	1	2
y	2	3	4

$$y = x + 2$$

4

Find the equation of the line.

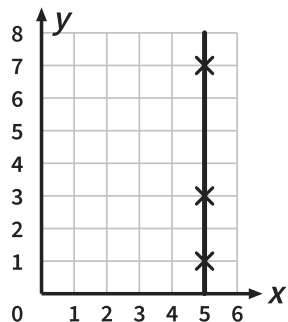


x	0	2	3
y	4	6	7

$$y = x + 4$$

5

Find the equation of the line.

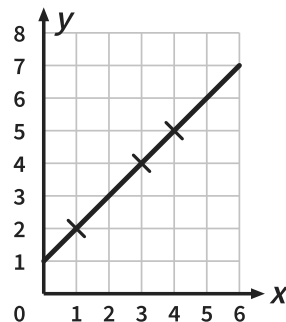


x	5	5	5
y	1	3	7

$$x = 5$$

6

Find the equation of the line.

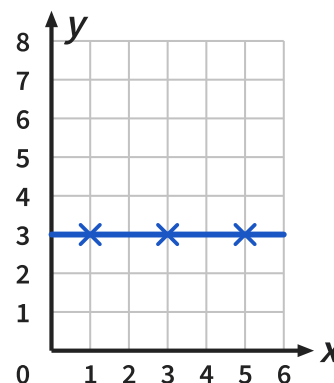


x	1	3	4
y	2	4	5

$$y = x + 1$$

7

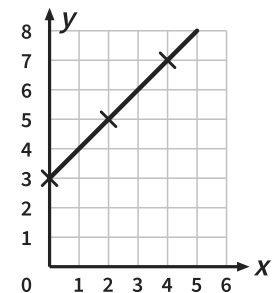
Draw the line $y = 3$.



x	1	3	5
y	3	3	3

8

Amy's age is x . Her brother's age is y . Find the equation.



x	0	2	4
y	3	5	7

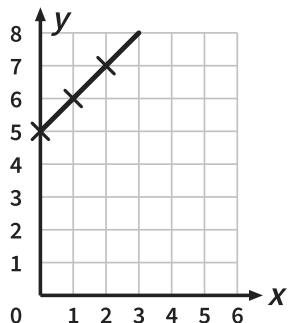
$$y = x + 3$$

The Equation of a Line from its Graph *further practice*

ANSWERS

9

Find the equation of the line.

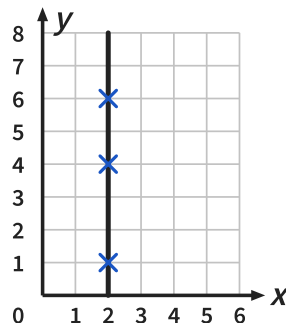


x	0	1	2
y	5	6	7

Answer $y = x + 5$

10

Find the equation of the line.

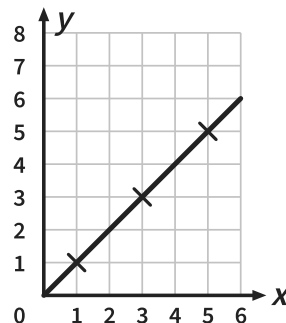


x	2	2	2
y	1	4	6

Answer $x = 2$

11

Find the equation of the line.

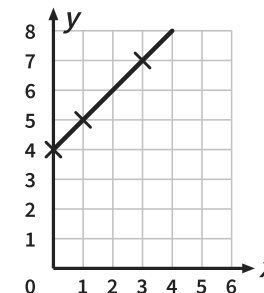


x	1	3	5
y	1	3	5

Answer $y = x$

12

A bath has y litres of water in it after x minutes. Find the equation.

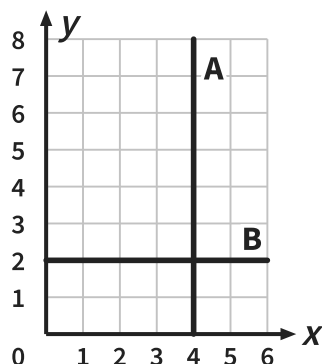


x	0	1	3
y	4	5	7

Answer $y = x + 4$

13

Find the equation of each line.

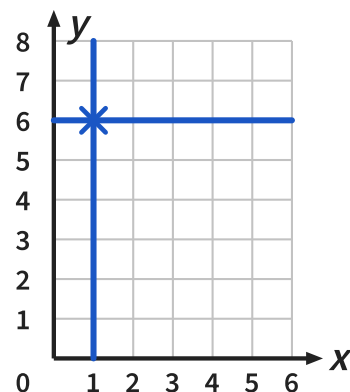


Line A $x = 4$

Line B $y = 2$

14

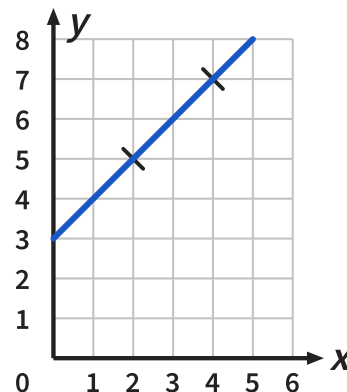
Draw the lines $x = 1$ and $y = 6$. Where do they cross?



They cross at (1 , 6)

15

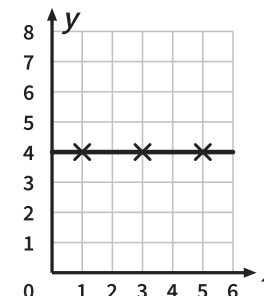
A line goes through (2, 5) and (4, 7). Find its equation.



Answer $y = x + 3$

16

Jo says this line is $x = 4$. Jo is wrong. Explain why.



Jo is wrong because
every point has $y = 4$,
so the line is $y = 4$.