

Graphs – GCSE Mathematics

1. No.7

Draw the graph of $y = 1 - \frac{1}{2}x$ for values of x from -2 to 4

[3 marks]

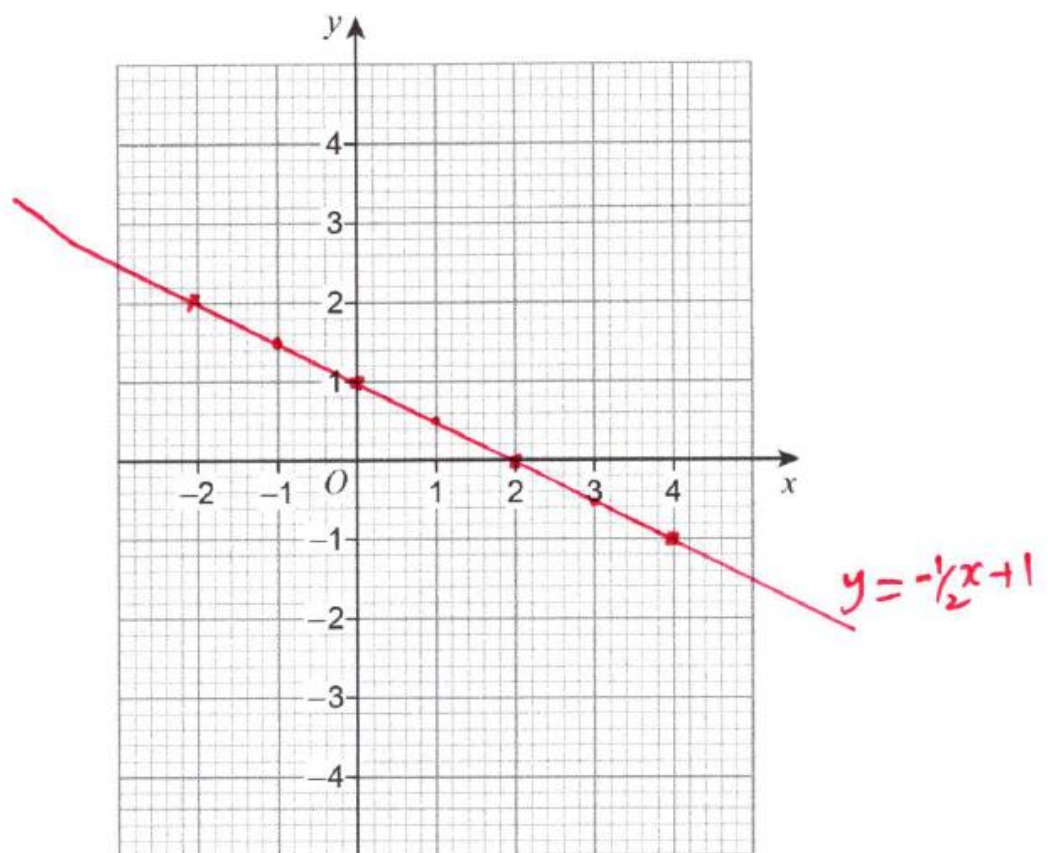
Substitute x values.

x	-2	-1	0	1	2	3	4
y	2	1.5	1	0.5	0	-0.5	-1

$$y = 1 - \frac{1}{2}(-2)$$

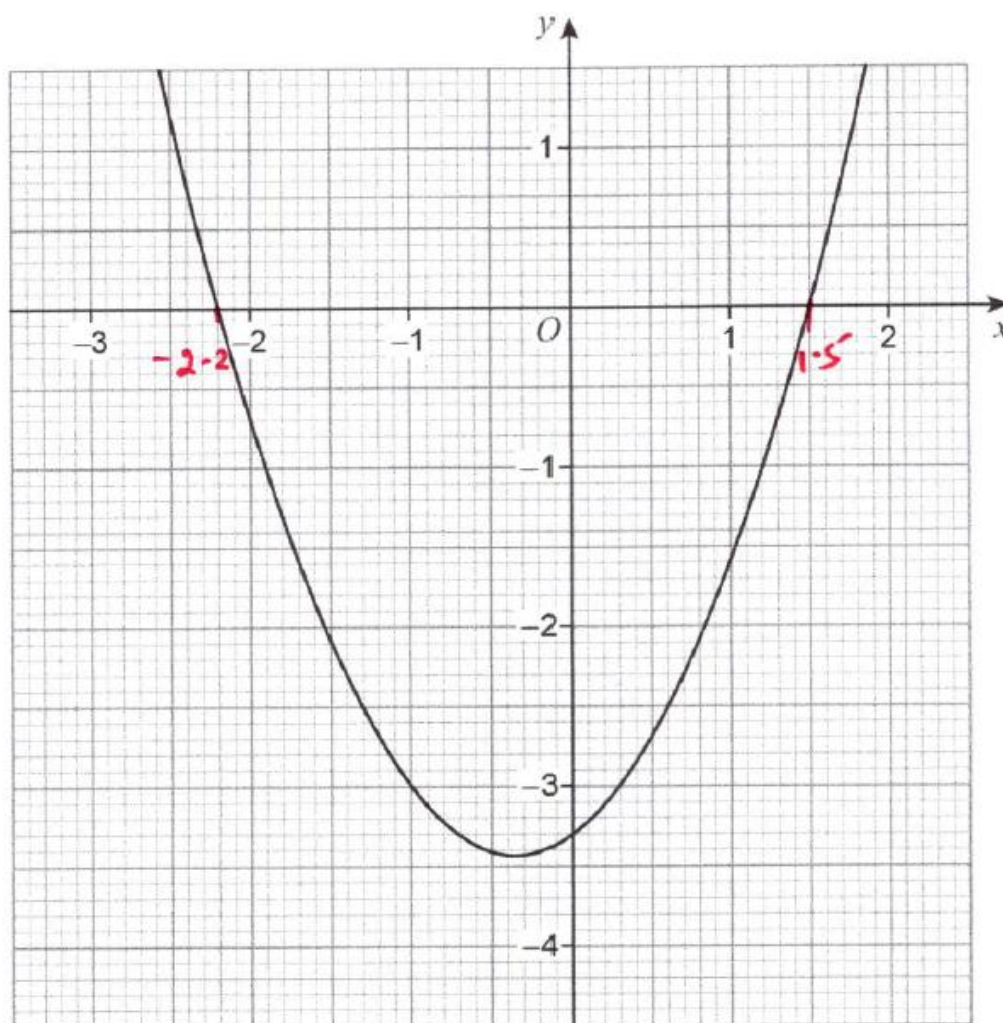
$$y = 1 - (-1)$$

$$y = \underline{\underline{2}}$$



2. No.13

Here is a quadratic graph with equation $y = f(x)$



Write down the roots of the equation $f(x) = 0$ $y=0$ (obtain values that intersect x-axis) [2 marks]

Answer $x = -2.2$ or 1.5