Mathematics

Equations of lines
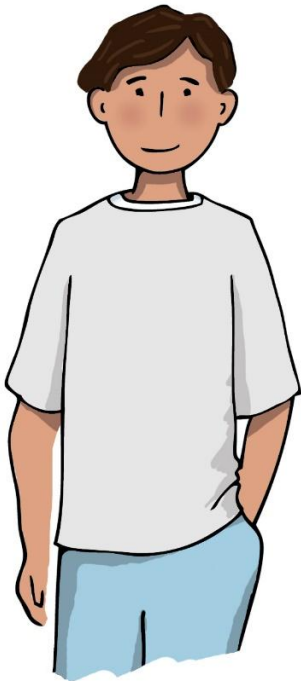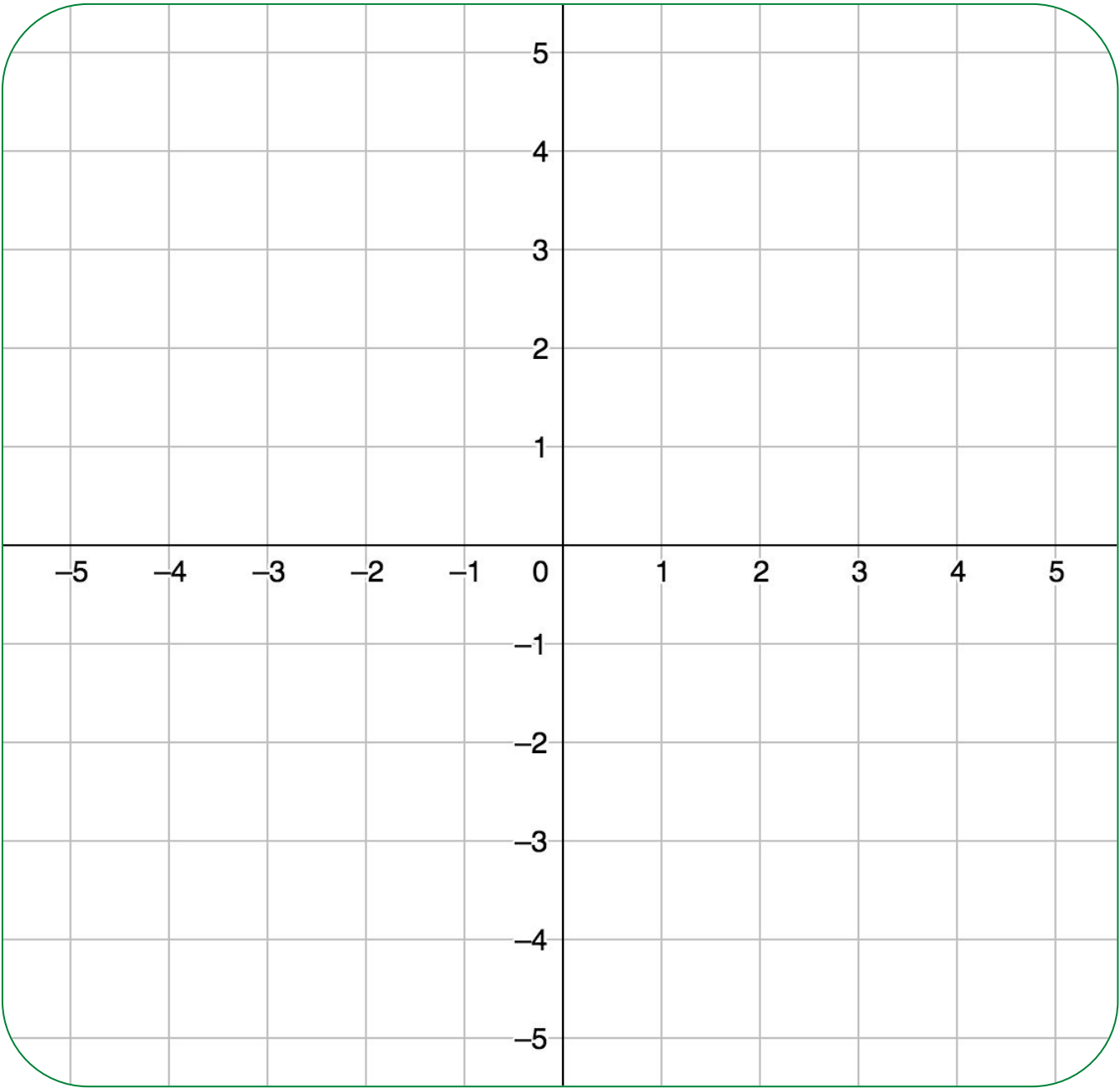# Downloadable resource
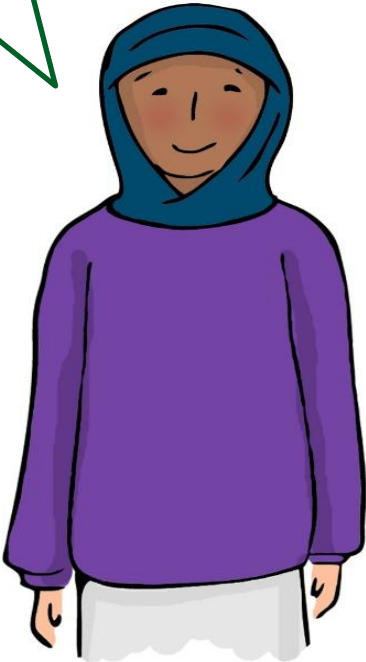# Lesson 7 of 8

Dr Rim Saada

Try this

My point has y-coordinate 3
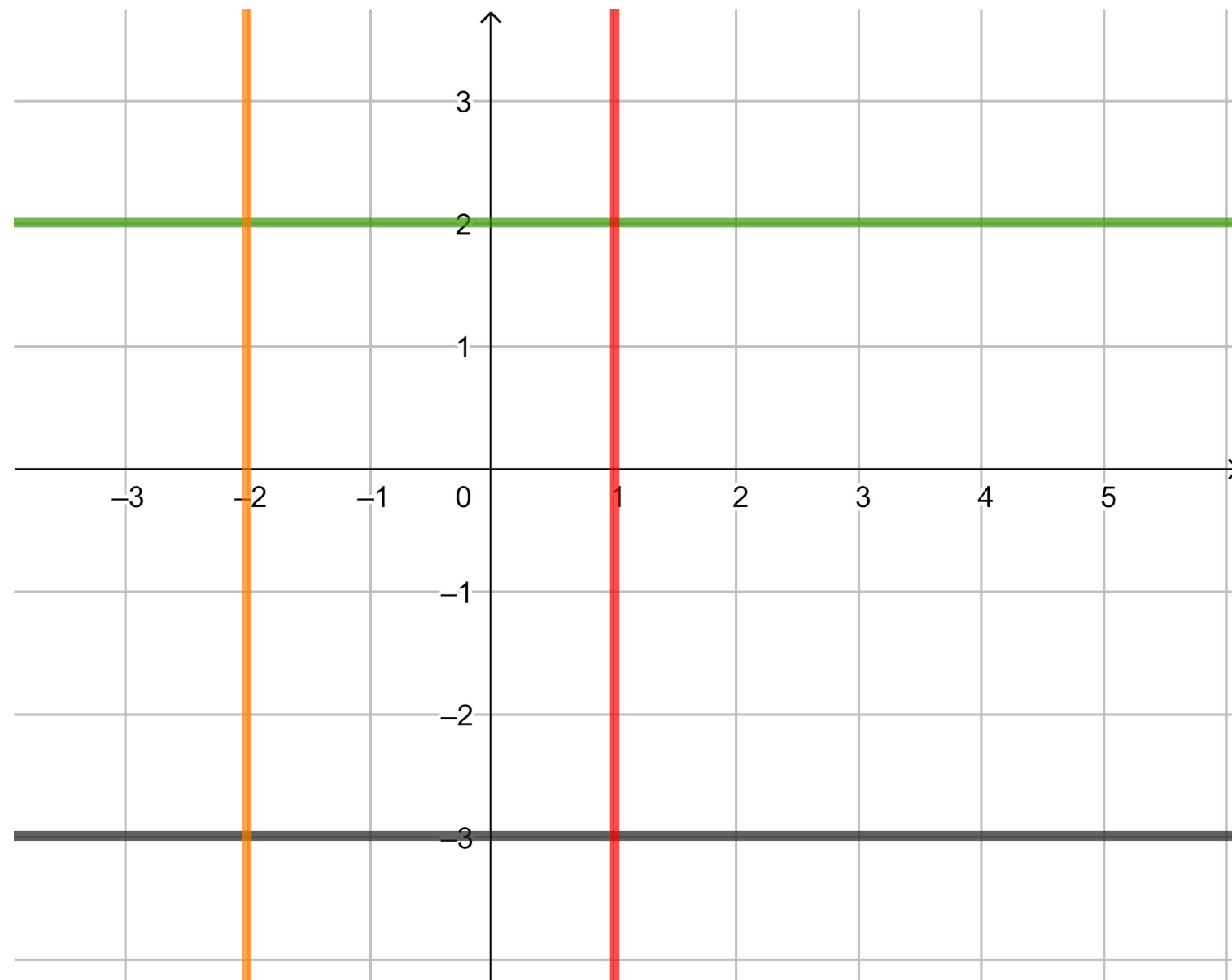
My point has x-coordinate −2

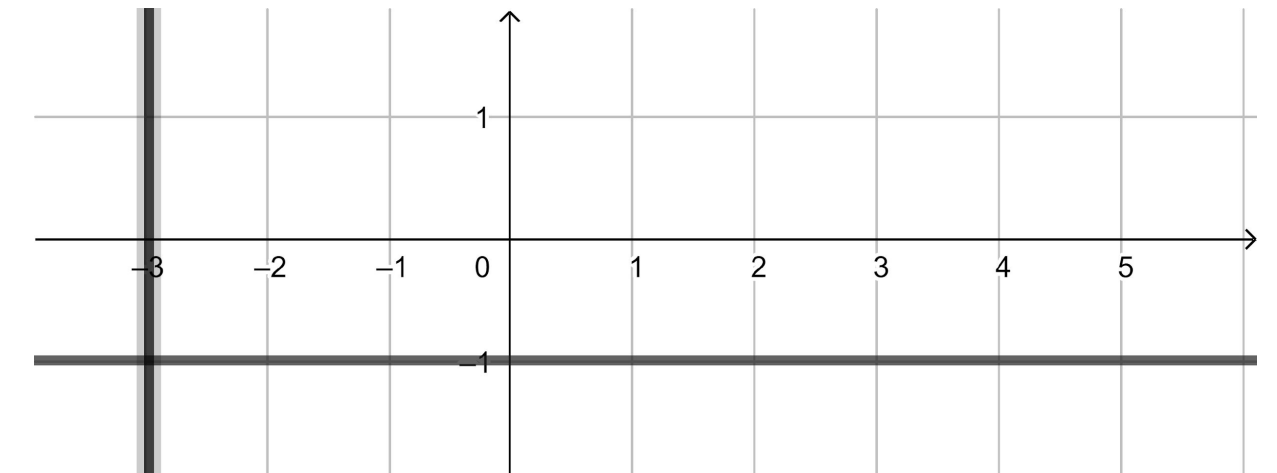Show all the points each student could be describing on this grid.

Independent task

1) Give the equations of the 4 coloured lines in the diagram.

2) The diagram shows two sides of a rectangle which enclose 14 squares, and can be drawn on this grid. What equations would form the other two sides?
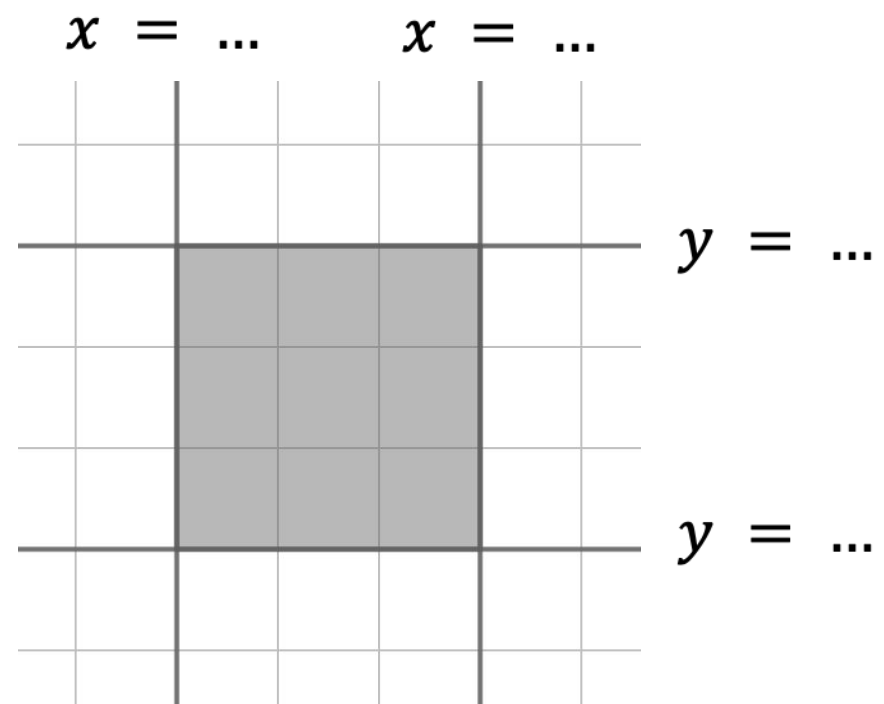

3) A square encloses 16 small squares on the grid. The left hand side is x=11 and the base is y=−5. What equations would form the other two sides?

Explore

Find the equations of four lines that form a square which encloses 9 squares.

$x = \ldots$ $x = \ldots$

$y = \ldots$

$y = \ldots$

Find the equations of four lines that form a rectangle which encloses 12 squares.

$x = \ldots$ $x = \ldots$