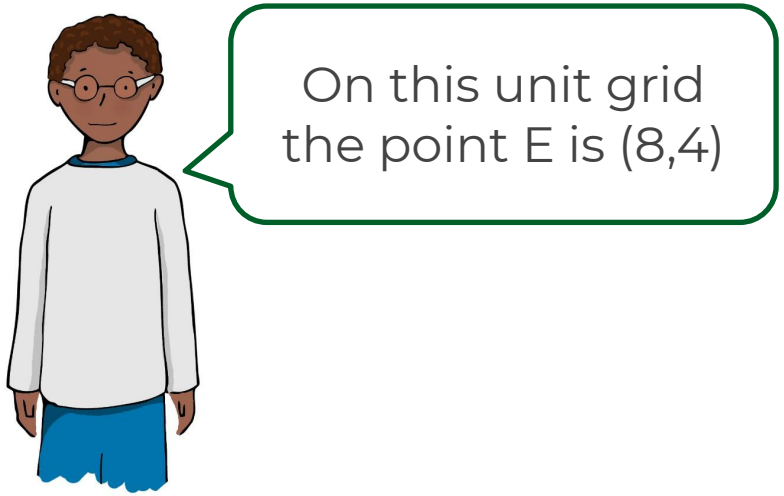
Mathematics

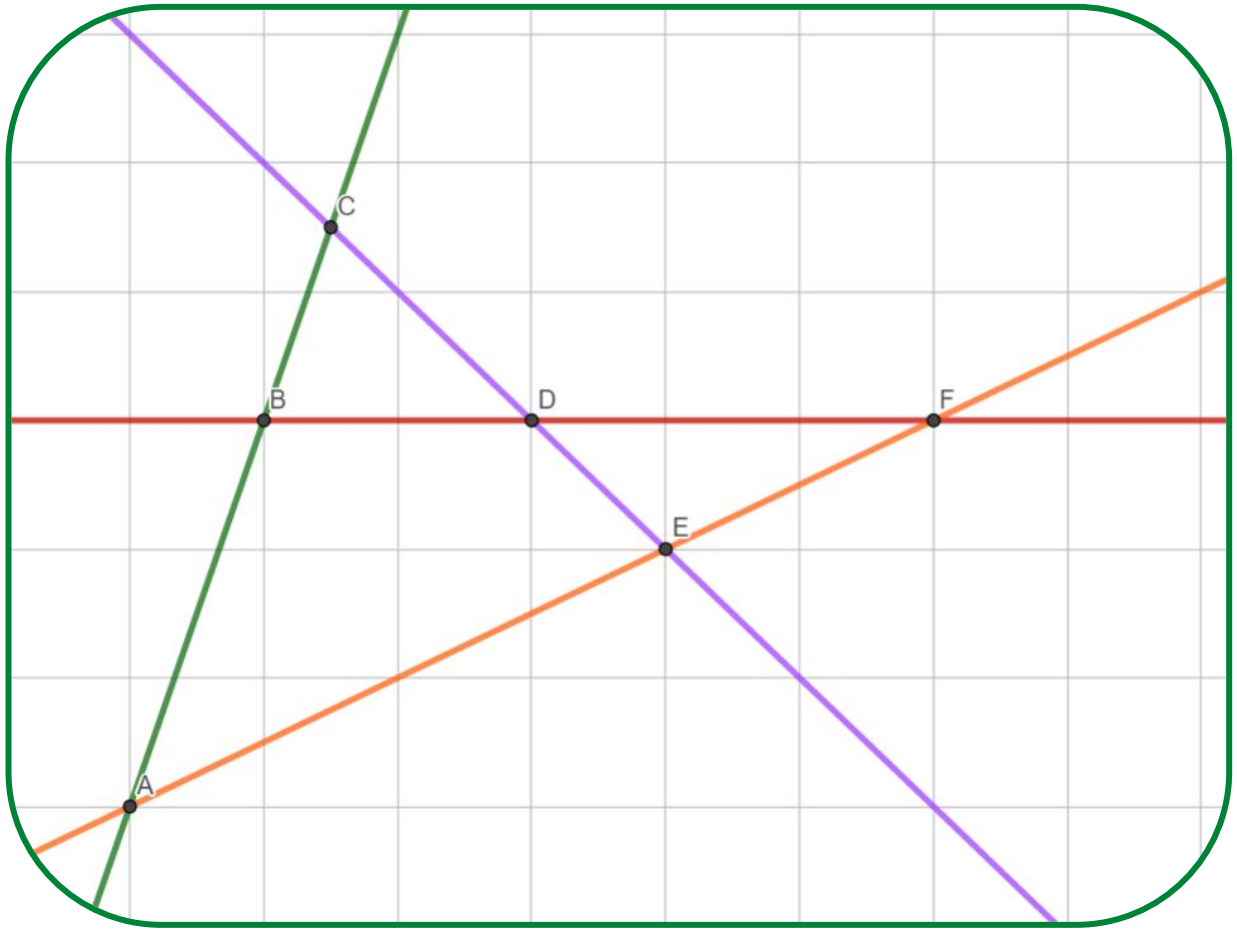
Gradient 2
Downloadable Resource

Mr Maseko

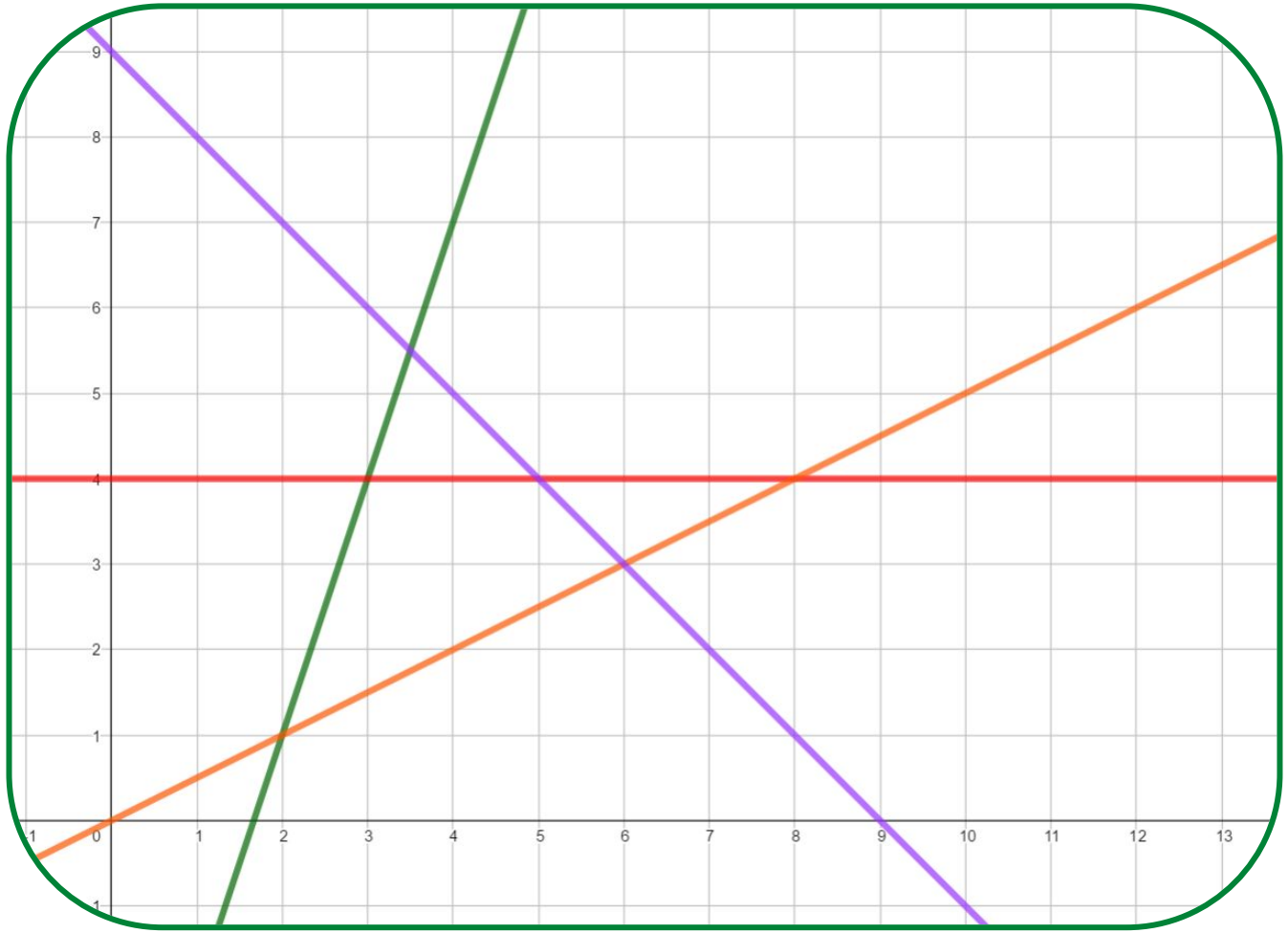
Try this

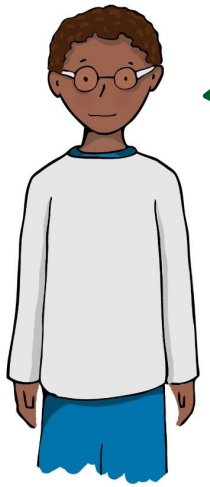
What are the coordinates of the other points on the grid?





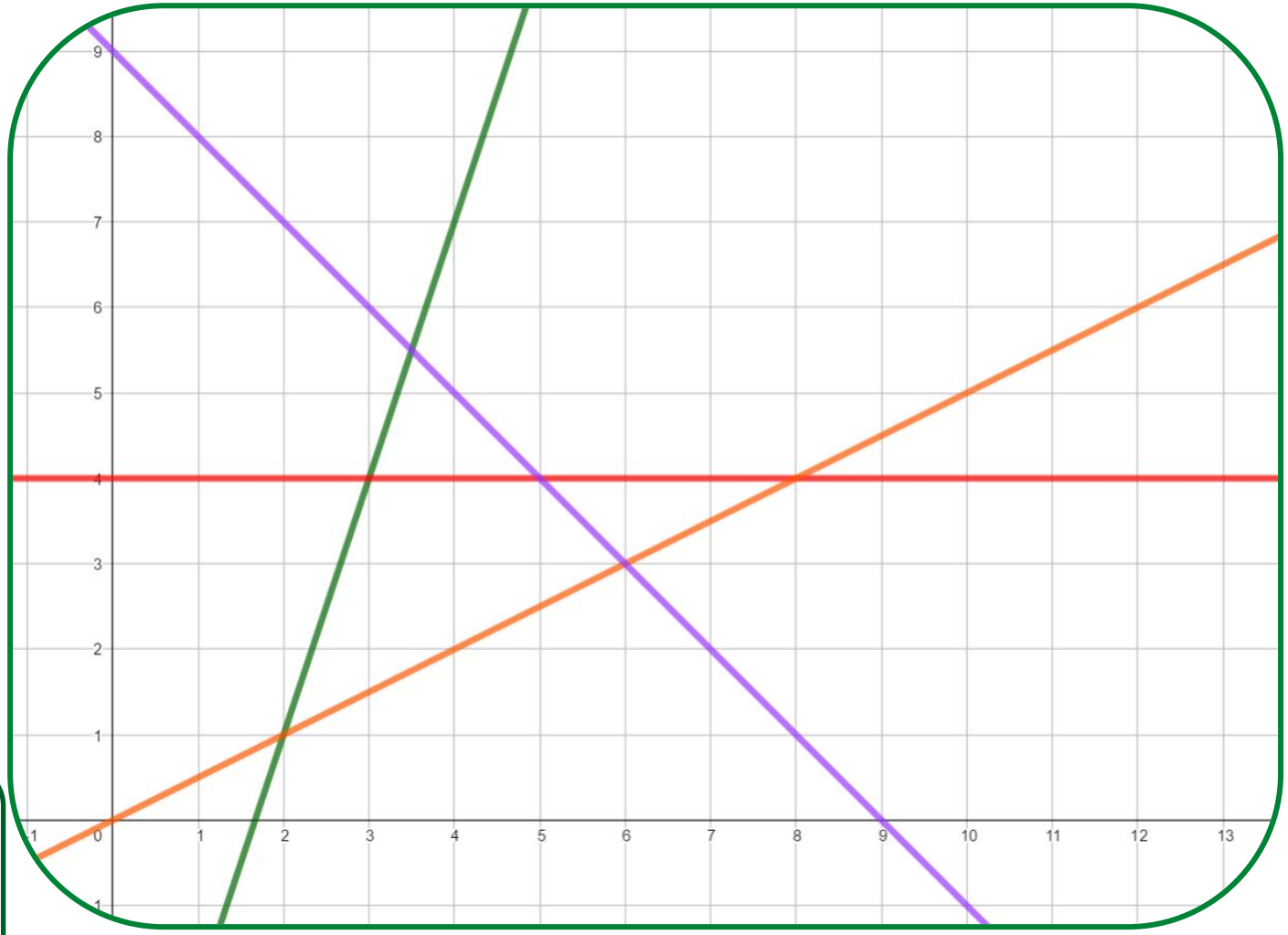
Connect

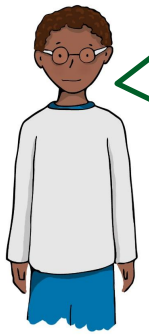




What is the gradient of each of these lines

Connect





What is the name of each of these graphs?

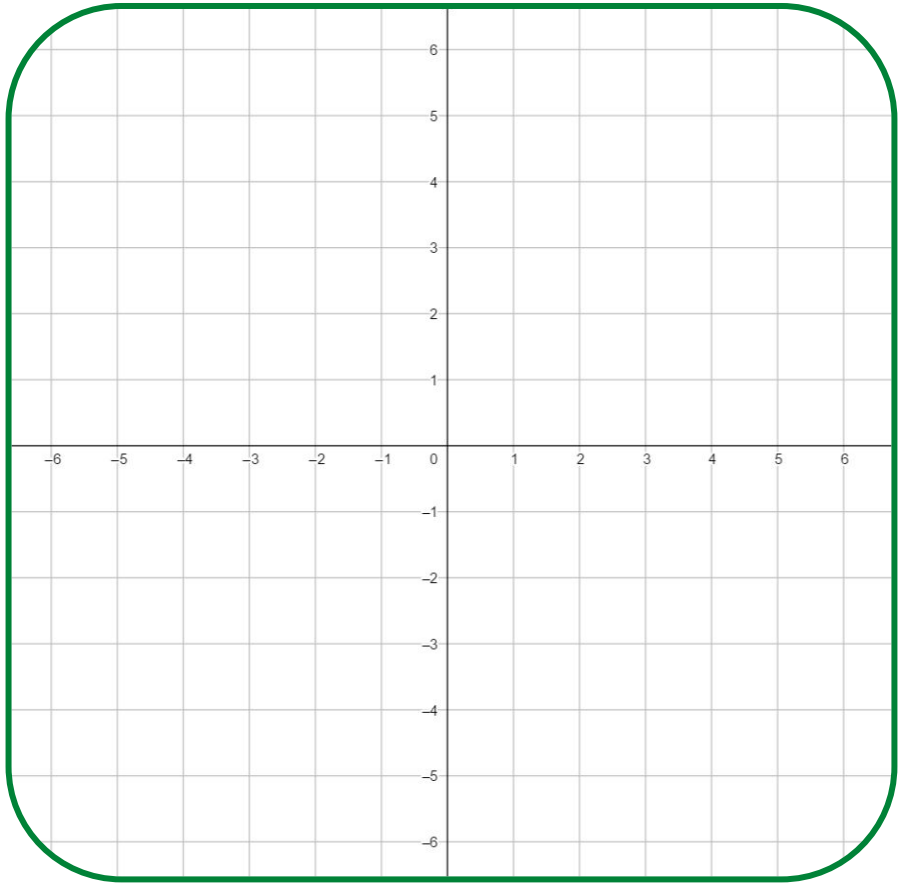
From this point on we are going to refer to the name of each graph as its **equation**

Independent task

1) A line has the equation y = 4x – 1. What is its gradient?

2) A line has the equation y = 9 – 5x. What is its gradient?

3) On the grid draw 2 different lines with a gradient of 2



Explore

1. Organise these linear equations into groups that have the same gradient

2. Create another linear equation to go with each group

A $y = 3x + 4$

B $y = x - 3$

C $y = \frac{x}{2} + 14$

D $y = \frac{1}{2}x + 4$

E $y = \frac{1}{2} + 3x$

F $y = x + x$

G $y = 14 - x$

H $y = 2x - 3$

J $x + y = 5$