Mathematics

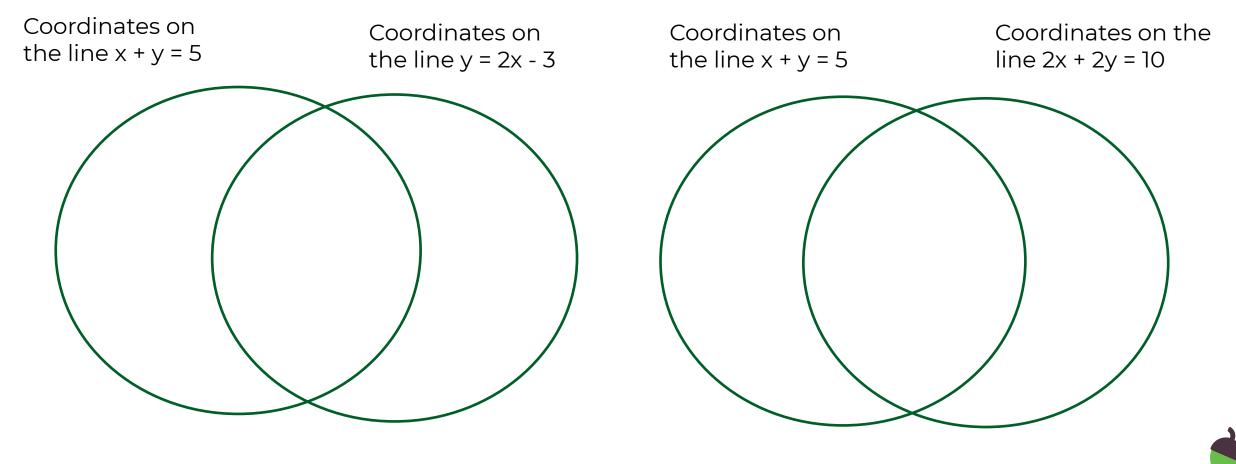
Equivalent lines Downloadable Resource

Mr Maseko

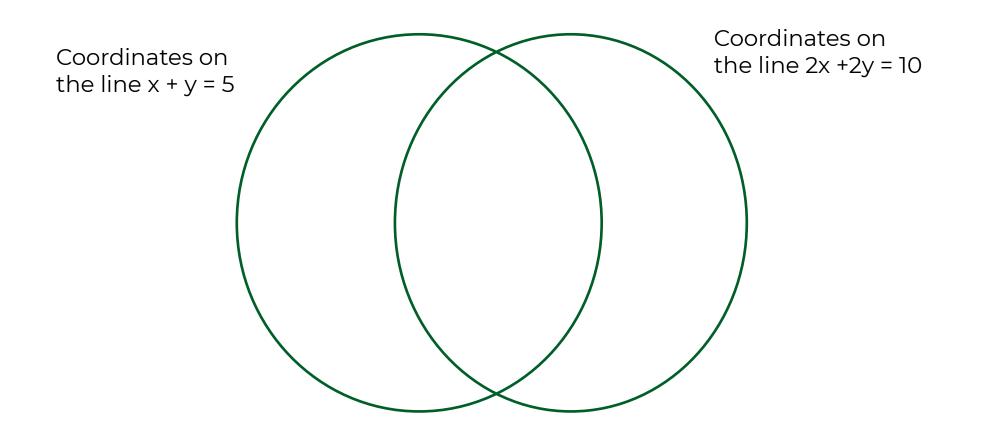
1

Try this

Fill in these Venn diagrams with some coordinates. What do you notice?

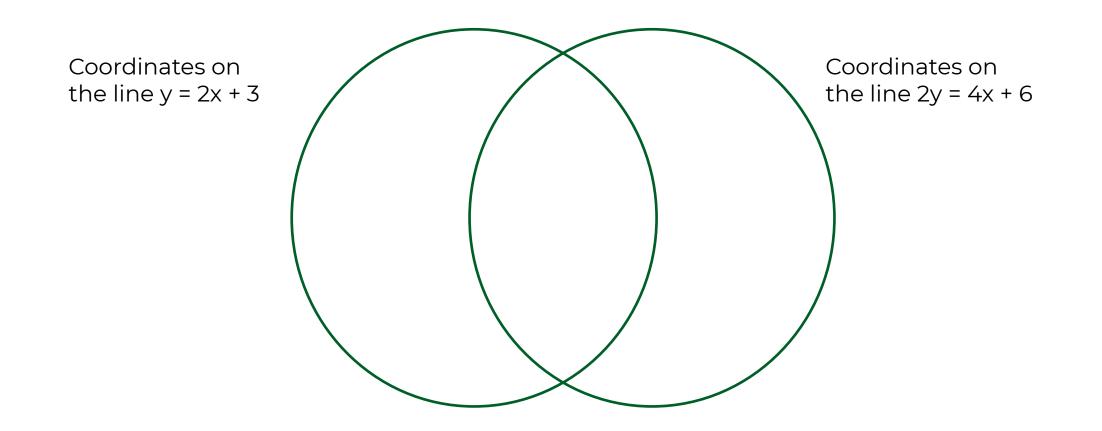


Connect





Connect



Independent task

Match the equivalent lines

$$x + y = 10$$
 $3y = 15x + 3$ 2) State a line that is
equivalent to $2x - y = 3$ $y = 5x + 1$ $6y = 10 - 4x$ $2x - y = 3$ $2x + 2y = 20$ $3y = 5 - 2x$ $4x - 2y = 6$

Explore

Find equivalent expressions for each of these. Can you make all of the pink boxes the same number? What about the purple boxes? Or the green boxes?

$$x + 2y = 10 \text{ is the same as} \qquad x + y = 10$$
$$3x + y = 10 \text{ is the same as} \qquad x + y = 10$$
$$2x + 5y = 10 \text{ is the same as} \qquad x + y = 10$$