

Investigating Simultaneous Equations

(a)

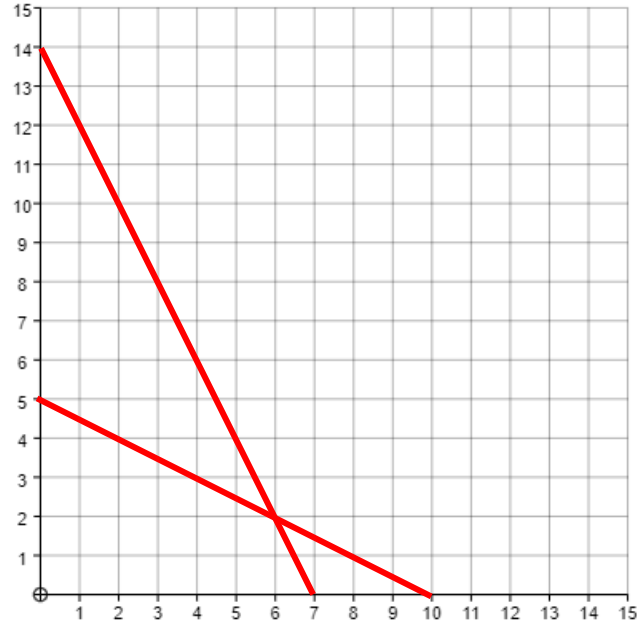
Solve the simultaneous equations

$$x + 2y = 10$$

$$2x + y = 14$$

$$x = 6, y = 2$$

Plot the equations of the lines $x + 2y = 10$ and $2x + y = 14$ on the same axes below. What do you notice?



Solving the simultaneous equations gives the coordinates of where the two lines cross.

(b)

Solve the simultaneous equations

$$4x + 3y = 24$$

$$x + 2y = 11$$

$$x = 3, y = 4$$

Plot the equations of the lines $4x + 3y = 24$ and $x + 2y = 11$ on the same axes below. What do you notice?

