

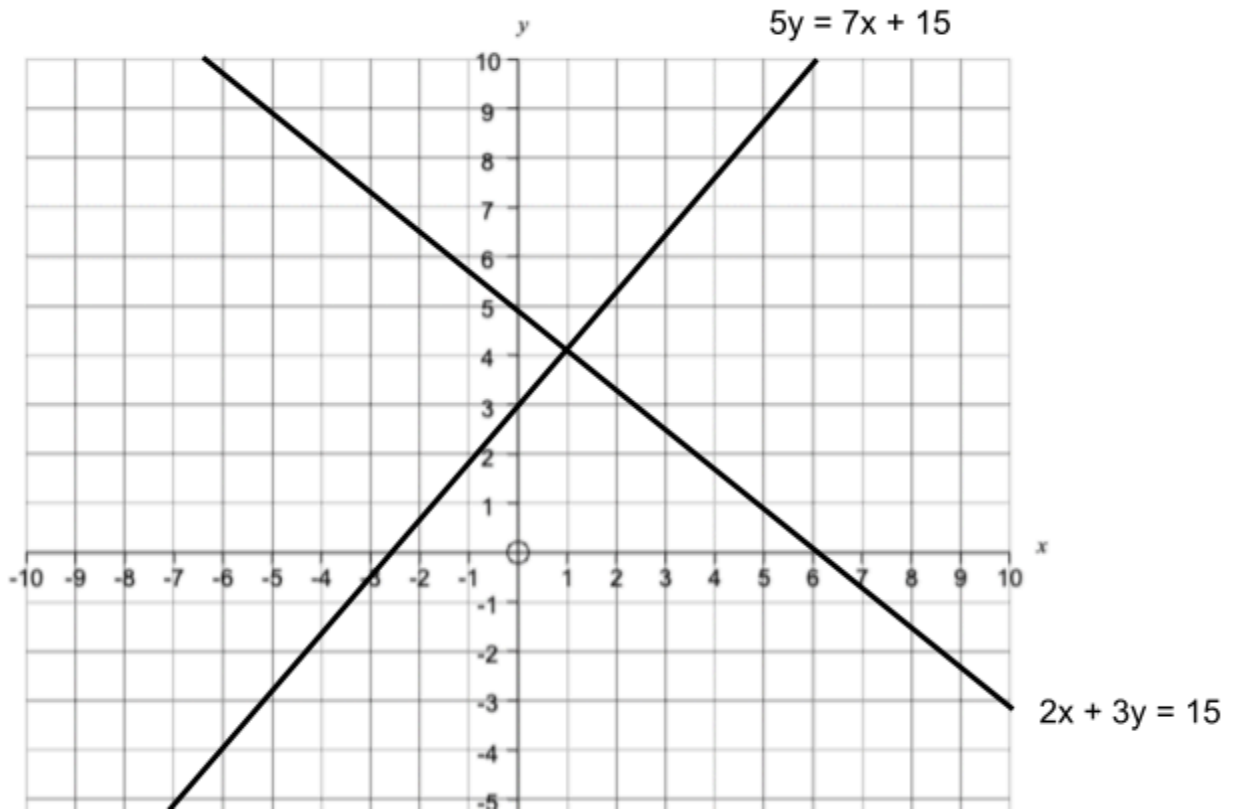
Graphical Simultaneous Equations

Exam Style Questions

1. Below are the graphs of

$$5y = 7x + 15$$

$$2x + 3y = 15$$



Use the graphs to solve the simultaneous equations

$$5y = 7x + 15$$

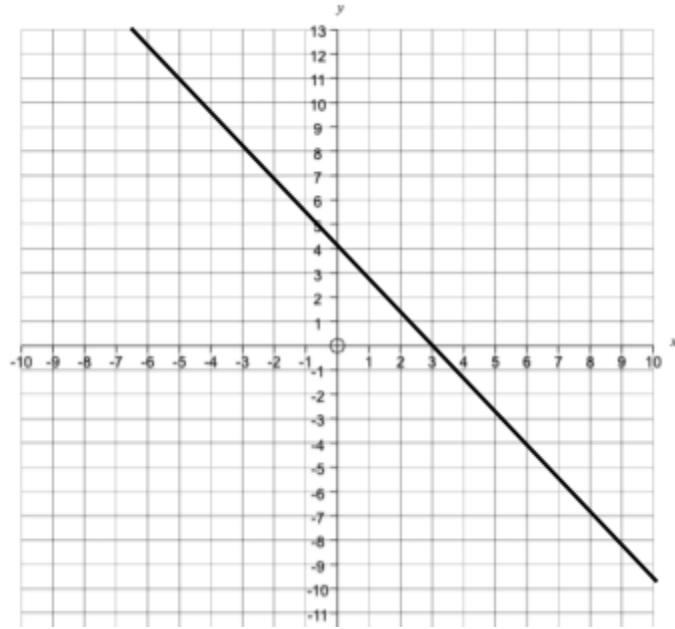
$$2x + 3y = 15$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(2 marks)

2. Below is the graph of $4x + 3y = 12$



$4x + 3y = 12$

(a) Complete the table of values for the line with the equation $y = 2x + 3$ (2)

x	-4	-2	0	2	4
y					

(b) On the above graph, sketch the line with equation $y = 2x + 3$ (1)

(c) Hence, use the graphs to estimate the solutions to the simultaneous equations

$$4x + 3y = 12$$

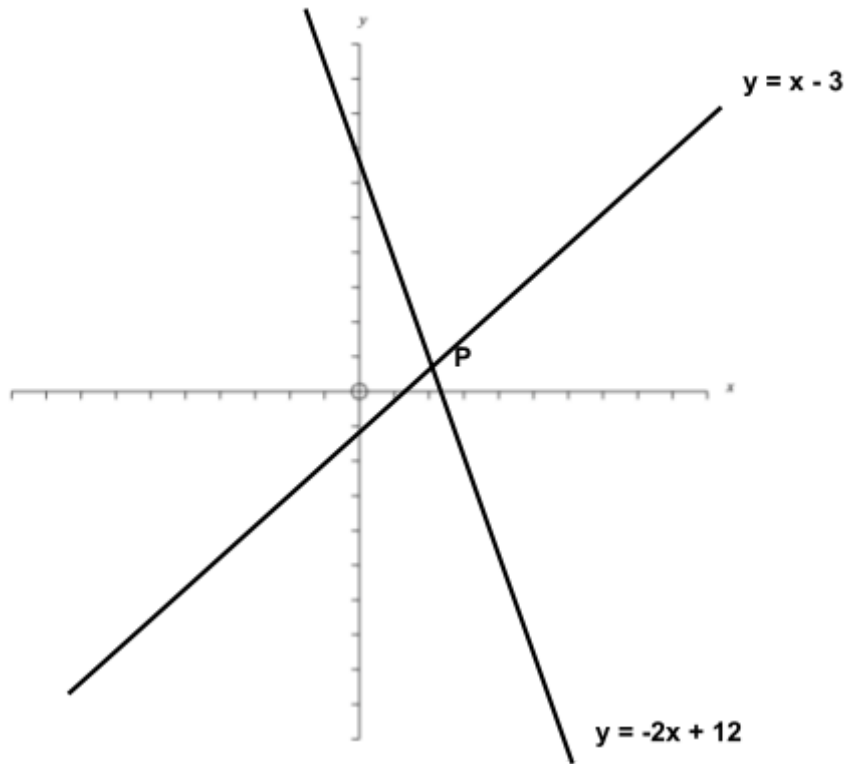
$$y = 2x + 3$$

$x = \dots\dots\dots$
 $y = \dots\dots\dots$

(2)

(5 marks)

3. Below are lines with equations $y = x - 3$ and $y = -2x + 12$.



The point P is where the two lines intersect. Find the coordinates of the point P.

(.....,))

(3 marks)
