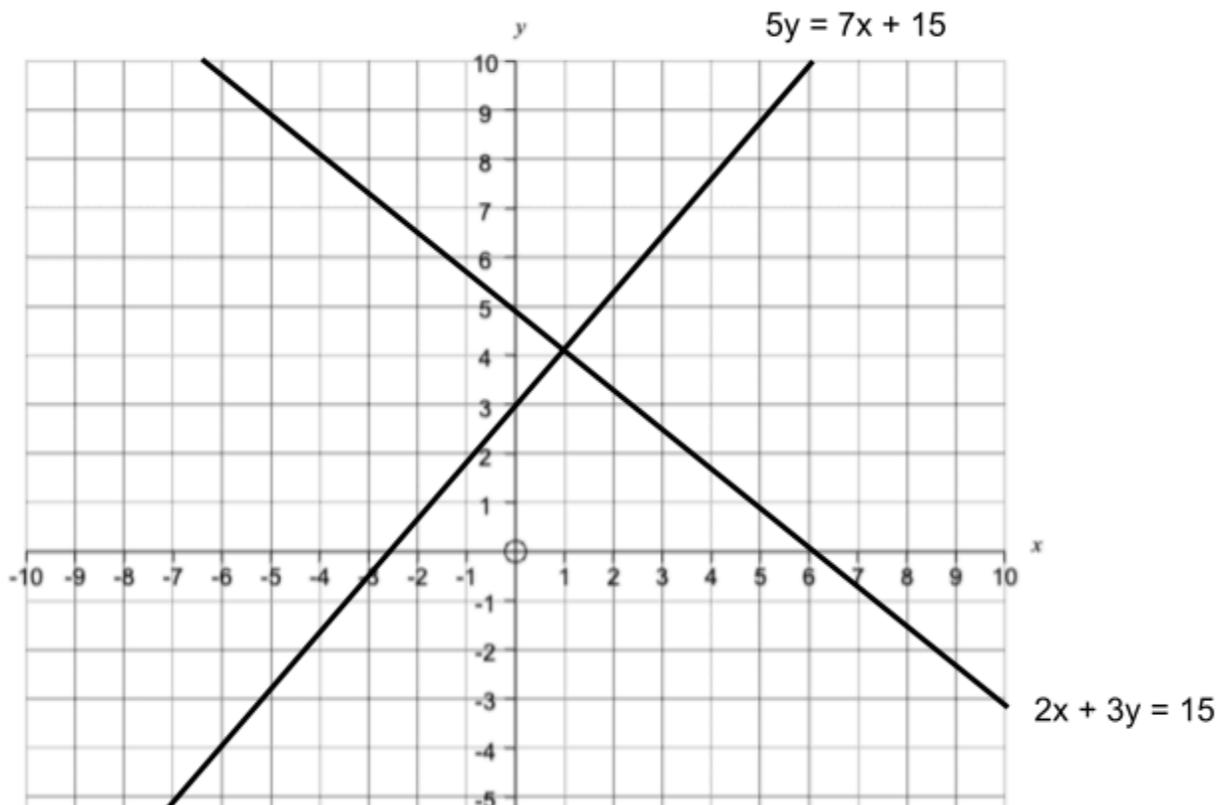## Graphical Simultaneous Equations
Exam Style Questions

1. Below are the graphs of

$$5y = 7x + 15$$
$$2x + 3y = 15$$

5y = 7x + 15

2x + 3y = 15

Use the graphs to solve the simultaneous equations

$$5y = 7x + 15$$
$$2x + 3y = 15$$

$x = $ ....

$y = $ ....

(2 marks)

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2. Below is the graph of $4x + 3y = 12$
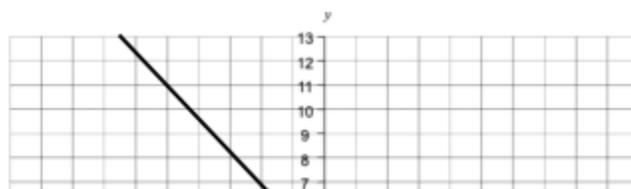
(a) Complete the table of values for the line with the equation $y = 2x + 3$ (2)

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

$$4x + 3y = 12$$
$$y = 2x + 3$$

$x =$ ……………

$y =$ ……………

(2)

(5 marks)

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

y = x - 3

P

y = -2x + 12
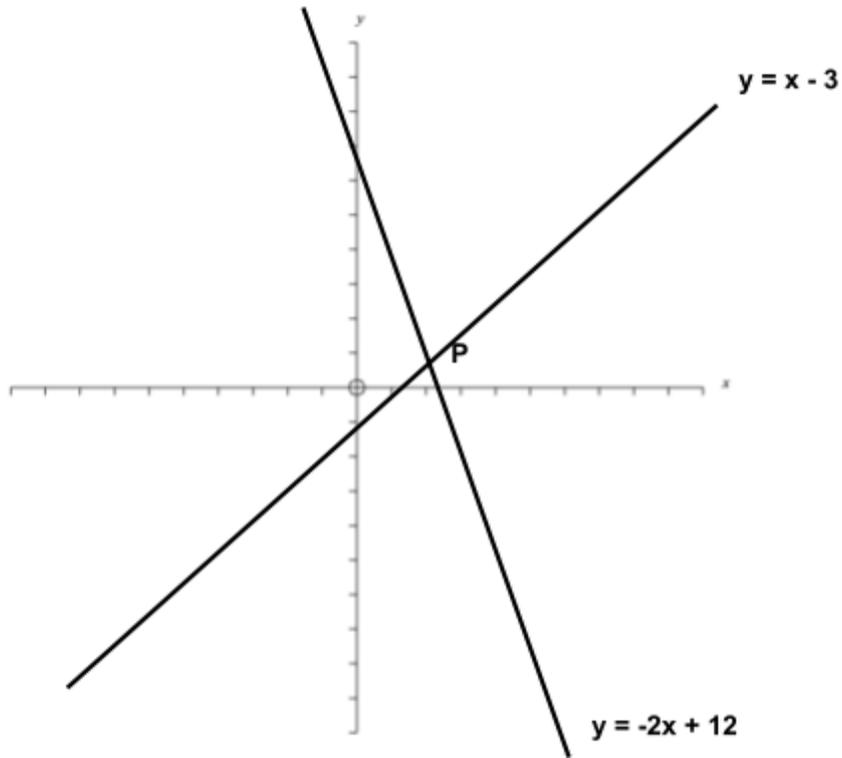
The point P is where the two lines intersect. Find the coordinates of the point P.

(......... , ...)

(3 marks)
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