1	3 teas and 2 coffees have a total cost of £7.80 5 teas and 4 coffees have a total cost of £14.20	Autumn 2017 Paper 1 Q11
	Work out the cost of one tea and the cost of one coffee.	
	work out the cost of one tea and the cost of one correc.	
		tea £
		coffee £
		(Total for Question 1 is 4 marks)

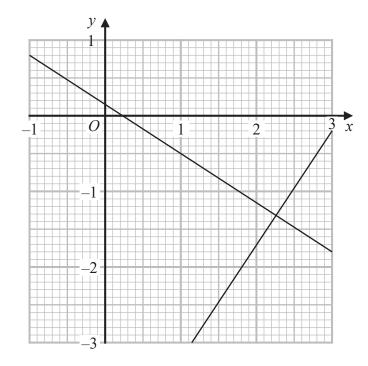
	Summer	2017	Paper	1	Q20
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2	Solve algebraically the simultaneous equat	ions	
		$x^2 + y^2 = 25$ $y - 3x = 13$	
_		(Total	for Question 2 is 5 marks)

3	Solve the simultaneous equations		
		3x + y = -4	
		3x + y = -4 $3x - 4y = 6$	
		y -:	
			<i>x</i> =
			<i>x</i> –
			<i>y</i> =
		(Total	for Question 3 is 3 marks)
		(=====	(

<u>Summer 2019 Paper 1 Q10</u>

4 The graphs with equations $3y + 2x = \frac{1}{2}$ and $2y - 3x = -\frac{113}{12}$ have been drawn on the grid below.



Using the graphs, find estimates of the solutions of the simultaneous equations

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

$$2y - 3x = -\frac{113}{12}$$

 $\chi =$

 $v = \dots$

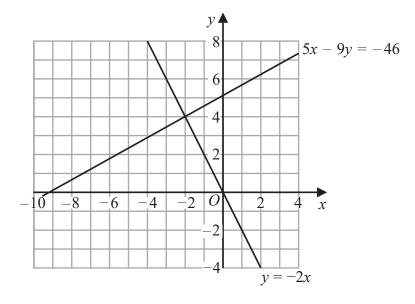
(Total for Question 4 is 2 marks)

Summer	2019 Pape	er 3 Q20
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5 Solve algebraically the simultaneous	<u> </u>	
	$x^2 - 4y^2 = 9$ $3x + 4y = 7$	
	(Total for Que	estion 5 is 5 marks)

Summer 2020 Paper 3 Q6

6

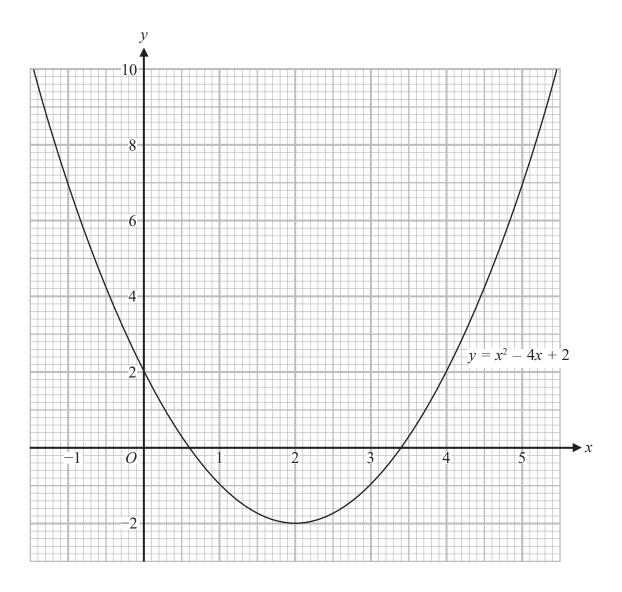


(a) Use these graphs to solve the simultaneous equations

$$5x - 9y = -46$$
$$y = -2x$$

x =

 $y = \dots (1)$



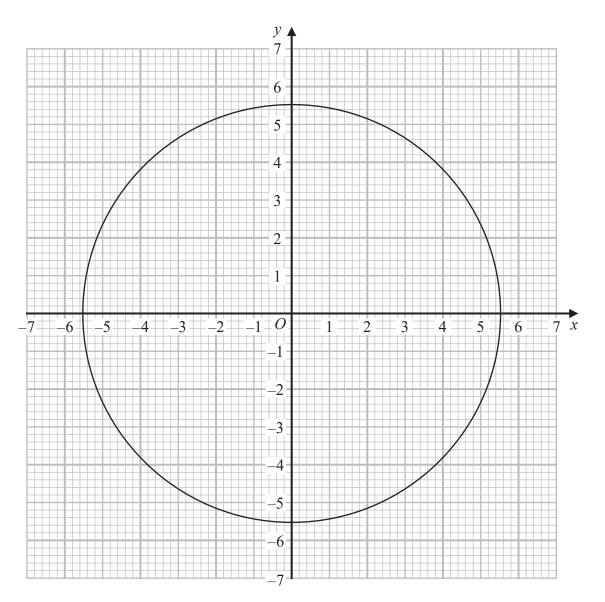
(b) Use this graph to find estimates for the solutions of the quadratic equation $x^2 - 4x + 2 = 0$

(2)

(Total for Question 6 is 3 marks)

<u>Summer 2021 Paper 1 Q20</u>

7 The diagram shows the graph of $x^2 + y^2 = 30.25$



Use the graph to find estimates for the solutions of the simultaneous equations

$$x^2 + y^2 = 30.25$$

$$y - 2x = 1$$

(Total for Question 7 is 3 marks)

8	The curve C has equation $y = x^2 + 3x - 3$	<u>Summer 2021 Paper 3 Q16</u>
	The line L has equation $y - 5x + 4 = 0$	
	Show, algebraically, that C and L have exactly one point in common.	
	(Total for Question 8 i	s 4 marks)

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9	Solve the simultaneous equations		<u>Autumn 2018 Paper 1 Q6</u>
		5x + y = 21 $x - 3y = 9$	
		x - 3y = 9	
			<i>x</i> =
			$y = \dots$ (Total for Question Q is 3 marks)
_			(Total for Question 9 is 3 marks)

<u>Autumn 2018 Paper 3 Q19</u>

10 Solve algebraically the simultaneous equations

$$2x^2 - y^2 = 17$$
$$x + 2y = 1$$

(Total for Question 10 is 5 marks)

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				<u> Autumn 2022 Paper 1 Q12</u>
11	Solve the simultaneous equations			
		5x + 2y = 11		
		4x + 3y = 6		
			2	χ =
			,	, =
				<i>y</i> =
			(Total for Questi	on 11 is 4 marks)

m	
	<u>Summer 2022 Paper 3 Q22</u>
of L and C.	

12 L is the straight line with equation y = 2x - 5C is a graph with equation $y^2 = 6x^2 - 25x - 8$ Using algebra, find the coordinates of the points of intersection o You must show all your working. (..... (Total for Question 12 is 5 marks)