1	Solve the simultaneous equations	
		3x + y = -4 $3x - 4y = 6$
		<i>x</i> =
		<i>y</i> =
_		(Total for Question 1 is 3 marks)

2 Solve th	ne simultaneous equations		
	3x + 4y = 5 $2x - 3y = 9$		
	2.		
			<i>x</i> =
			<i>y</i> =
	(Total for Question 2	
		2- Q.2000.0M	,

3 Solve the simultaneous equations	4x + y = 25	
	x - 3y = 16	
		v =
		<i>x</i> =
		<i>y</i> =
	(Total for Question	3 is 3 marks)

4	Solve the simultaneous equations	
		5x + y = 21 $x - 3y = 9$
		v =
		$x = \dots$ $y = \dots$
_		x =
		<i>y</i> =
		<i>y</i> =
		<i>y</i> =
		<i>y</i> =
		<i>y</i> =
		<i>y</i> =
		<i>y</i> =

5 Solve	2				
2x	$x + 3y = \frac{2}{3}$ $x - 4y = 18$				
3 <i>x</i>	c - 4y = 18				
				<i>x</i> =	
				v =	
			(Total for Ou		
			(Total for Que	estion 5 is 4 ma	rks)

6	Solve the simultaneous equations		
		5x + 2y = 11 $4x - 3y = 18$	
		4x - 3y = 18	
			<i>x</i> =
			<i>y</i> =
		(Total for Question	1 6 is 4 marks)

7 Solve the simultaneous equations	
	3x + 2y = 4 $4x + 5y = 17$
	<i>x</i> =
	<i>y</i> =
	(Total for Question 7 is 4 marks)

8 Solve the simultaneous equations		
	5x + 2y = 11 $4x + 3y = 6$	
		<i>x</i> =
		<i>y</i> =
	(Total for Que	stion 8 is 4 marks)

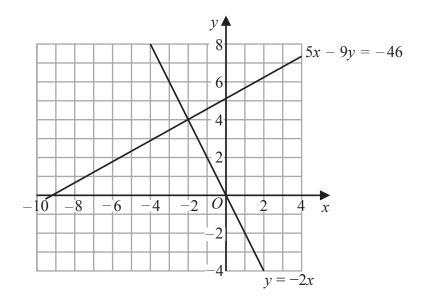
9 Solve the simultaneous equations	4x + 7y = 1 $3x + 10y = 15$
	<i>y</i> =
	(Total for Question 9 is 4 marks)

10 Solve the simultaneous equations	
	9x + 7y = 3 $5x - 4y = 6.4$
Show clear algebraic working.	
	<i>x</i> =
	<i>y</i> =
	<i>y</i> =(Total for Question 10 is 4 marks)

11	3 teas and 2 coffees have a total cost of £7.80 5 teas and 4 coffees have a total cost of £14.20
	Work out the cost of one tea and the cost of one coffee.
	tea £
	tea £
	coffee £
	coffee £
_	coffee £
	coffee £

12	Alison buys 5 apples and 3 pears for a total cost of \$1.96 Greg buys 3 apples and 2 pears for a total cost of \$1.22
	Michael buys 10 apples and 10 pears.
	Work out how much Michael pays for his 10 apples and 10 pears. Show your working clearly.
	\$
	\$
	\$(Total for Question 12 is 5 marks)
_	

13



(a) Use these graphs to solve the simultaneous equations

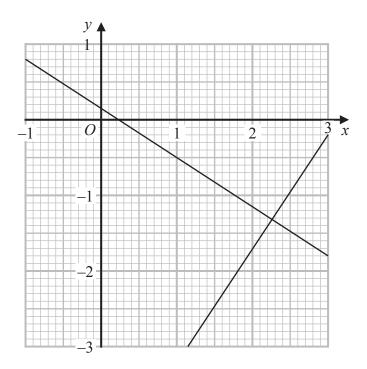
$$5x - 9y = -46$$
$$y = -2x$$

x =

v =

(Total for Question 13 is 1 mark)

14 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

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

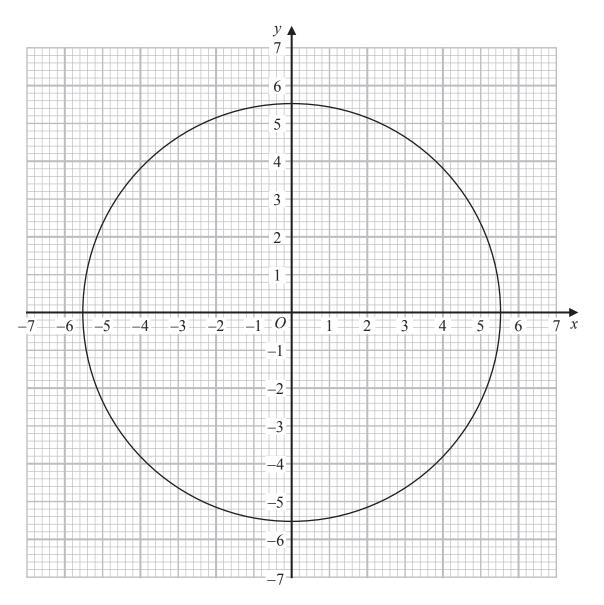
$$2y - 3x = -\frac{113}{12}$$

 $x = \dots$

 $v = \dots$

(Total for Question 14 is 2 marks)

15 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

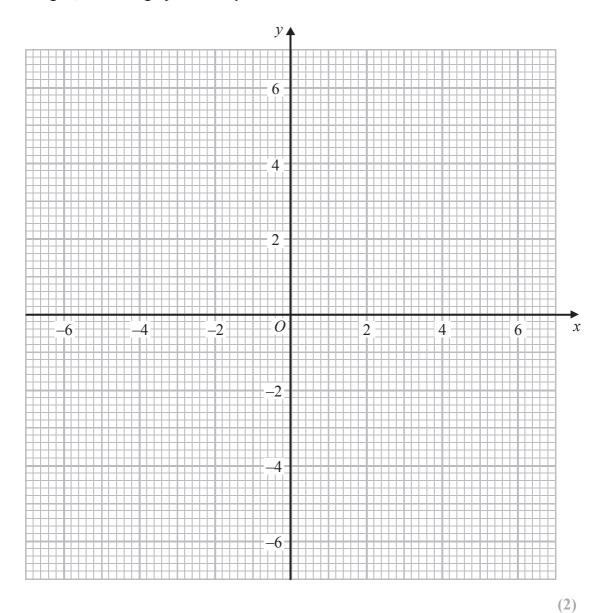
$$x^2 + y^2 = 30.25$$

$$y - 2x = 1$$

$$y - 2x = 1$$

(Total for Question 15 is 3 marks)

16 (a) On the grid, draw the graph of $x^2 + y^2 = 12.25$



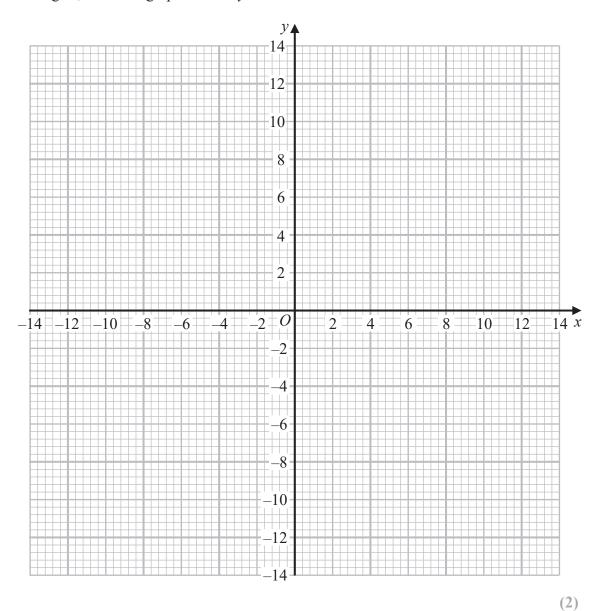
(b) Hence find estimates for the solutions of the simultaneous equations

$$x^2 + y^2 = 12.25$$
$$2x + y = 1$$

(3)

(Total for Question 16 is 5 marks)

17 (a) On the grid, draw the graph of $x^2 + y^2 = 169$



(b) Use your graph to find estimates for the solutions of the simultaneous equations

$$x^2 + y^2 = 169$$
$$2y = 3x$$

(3)

(Total for Question 17 is 5 marks)