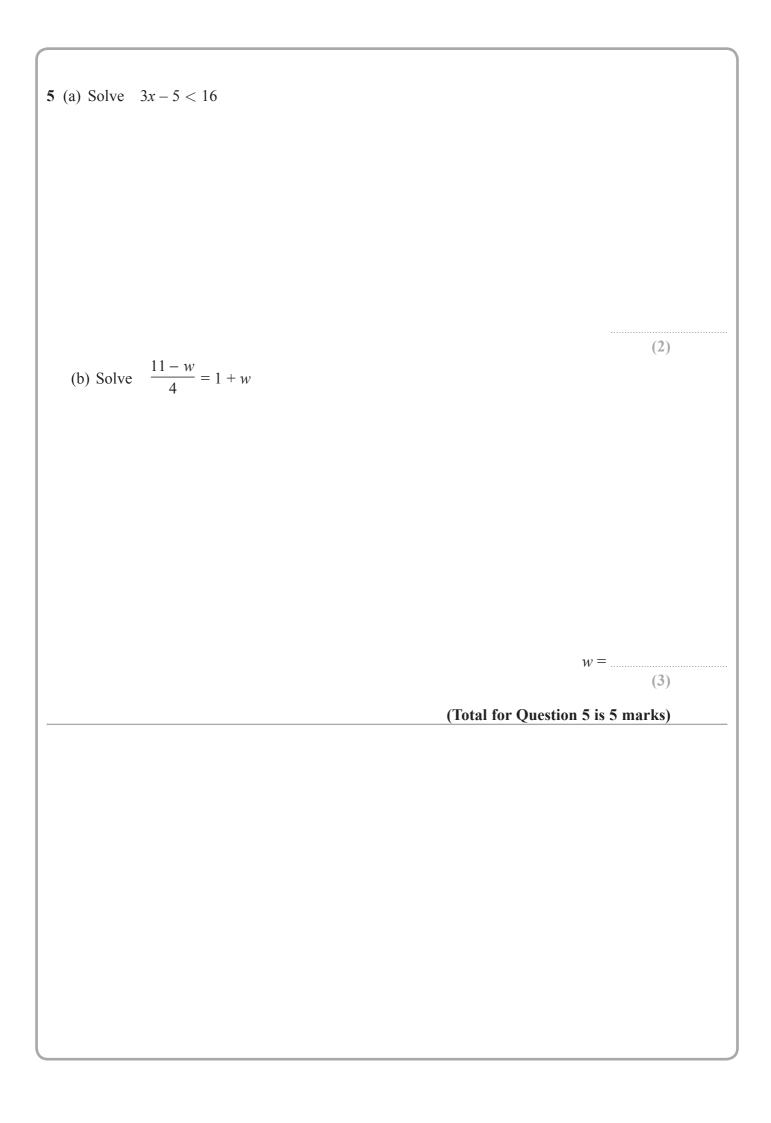
() === 1	
(a) Work out the value of $4x^2$	
(1))
(b) Solve $5x + 4 = 14 + x$	
$\chi = \dots$	
(2	
(Total for Question 1 is 3 marks)
2 Sweets are sold in bags and in tins.	
There are 20 sweets in a bag.	
There are 30 sweets in a tin.	
Lee buys B bags of sweets and T tins of sweets.	
He buys a total of S sweets.	
Write down a formula for S in terms of B and T .	
······································	
(Total for Question 2 is 3 marks)

3 (a) Solve $13x + 1 = 11x + 8$	
$x = \dots$	(2)
4	(2)
(b) Show that $y = -2$ is a solution of the equation $\frac{4}{y} + y = 2y$	
	(2)
	(Total 4 marks)

4	(a) Simplify $5x + 4y + x - 7y$			
				(2)
	(b) Solve $7(x+2) = 7$			
		(Total for Or		(2)
		(Total for Q	iestion 4 is 4 m	iai ks)



6 Solve $x^2 = 4(x-3)^2$	
	(Total for Question 6 is 3 marks)

(a) Solve
$$\frac{4(8x-2)}{3x} = 10$$

(3)

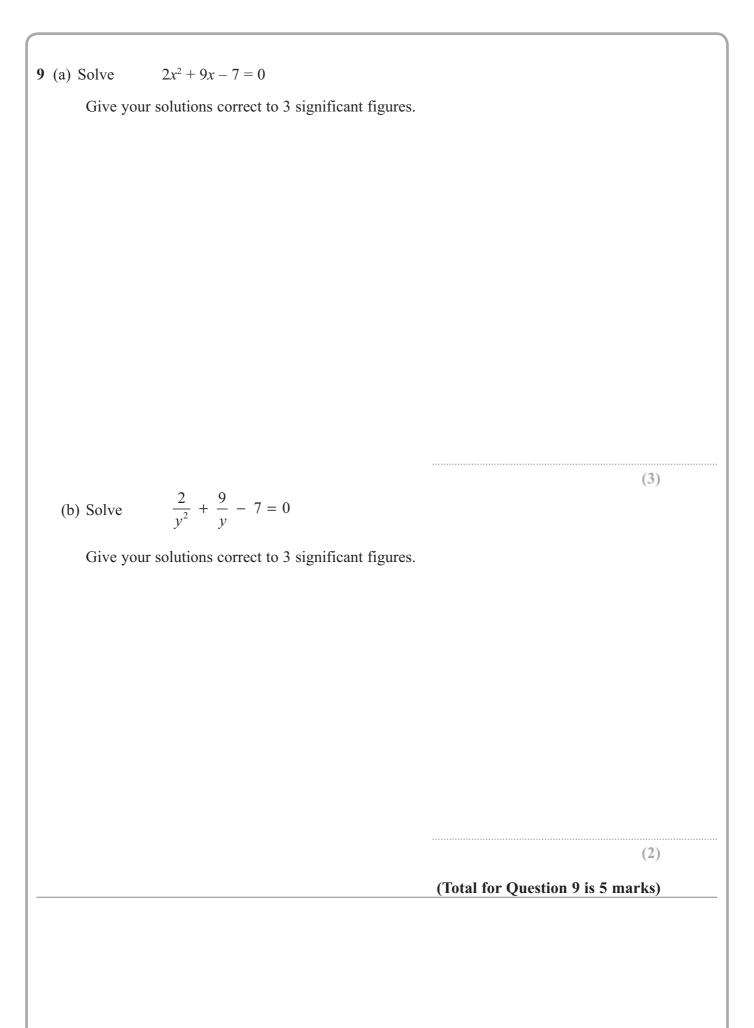
(b) Write as a single fraction in its simplest form

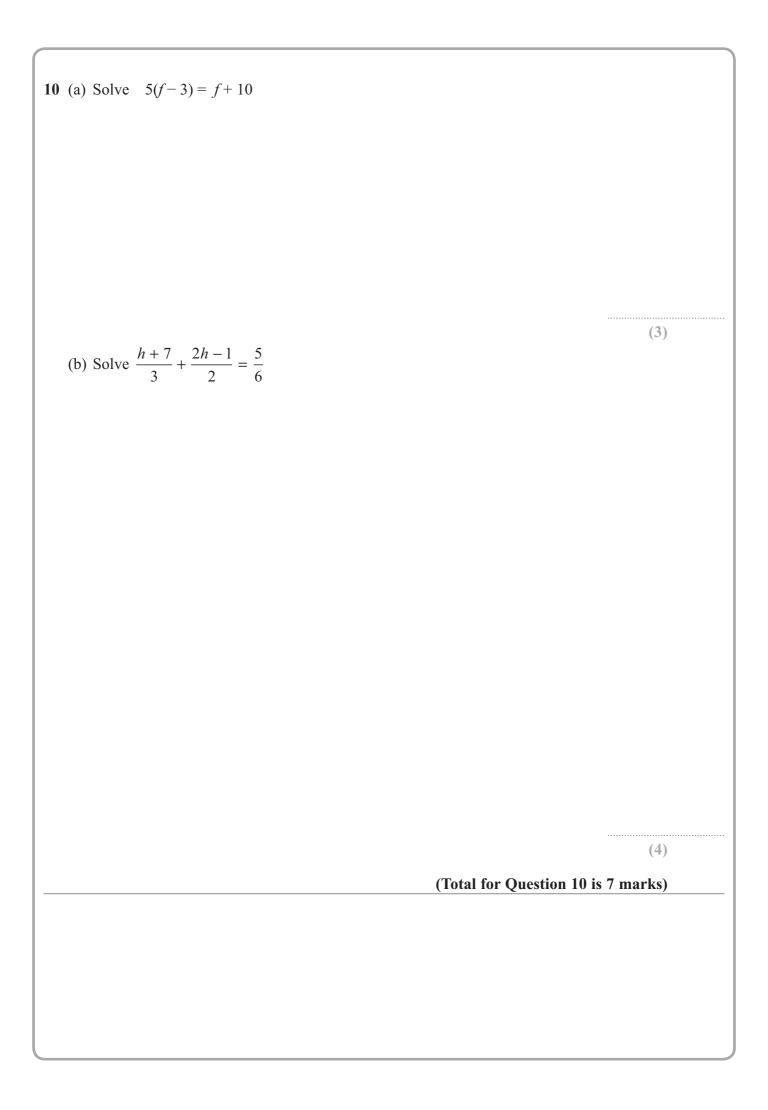
$$\frac{2}{y+3} - \frac{1}{y-6}$$

(3)

(Total for Question 7 is 6 marks)

8 Solve	$\frac{5(2x+1)^2}{4x+5} = 5x - 1$	
		(Total 5 marks)





11 Solve $3x^2 - 5x - 1 = 0$ Give your solutions correct to 3 significant figures.	
	(Total for Question 11 is 3 marks)
	(Total for Question 11 is 3 marks)
	(Total for Question 11 is 3 marks)
	(Total for Question 11 is 3 marks)
	(Total for Question 11 is 3 marks)

12	Solve	$3x^2$	-4x	-2 =	= 0

Give your solutions correct to 3 significant figures.

(Total for Question 12 is 3 marks)

13

Solve
$$\frac{4x-1}{5} + \frac{x+4}{2} = 3$$

x =

(Total for Question 13 is 3 marks)

	Solve $3x^2 + 6x - 2 = 0$	
(Give your solutions correct to 2 decimal places.	
	(Total	l for Question 14 is 3 marks)
15		l for Question 14 is 3 marks)
15	Solve the equation $3x^2 + 4x - 12 = 0$ Give your solutions correct to 2 decimal places.	l for Question 14 is 3 marks)
15		l for Question 14 is 3 marks)
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15	Solve the equation $3x^2 + 4x - 12 = 0$ Give your solutions correct to 2 decimal places.	
15	Solve the equation $3x^2 + 4x - 12 = 0$ Give your solutions correct to 2 decimal places.	I for Question 14 is 3 marks)

16 Alison is using the quadratic formula to solve a quadratic equation. She substitutes values into the formula and correctly gets	
$x = \frac{-7 \pm \sqrt{49 - 32}}{4}$	
Work out the quadratic equation that Alison is solving. Give your answer in the form $ax^2 + bx + c = 0$, where a, b and c are integers.	
(Total for Question 16 is 3 marks)	

17 Solve the equation	$\frac{x}{2} - \frac{2}{x+1} = 1$	
		(Total 4 marks)