Name: _____

GCSE (1 - 9)

Algebraic Fractions

Instructions

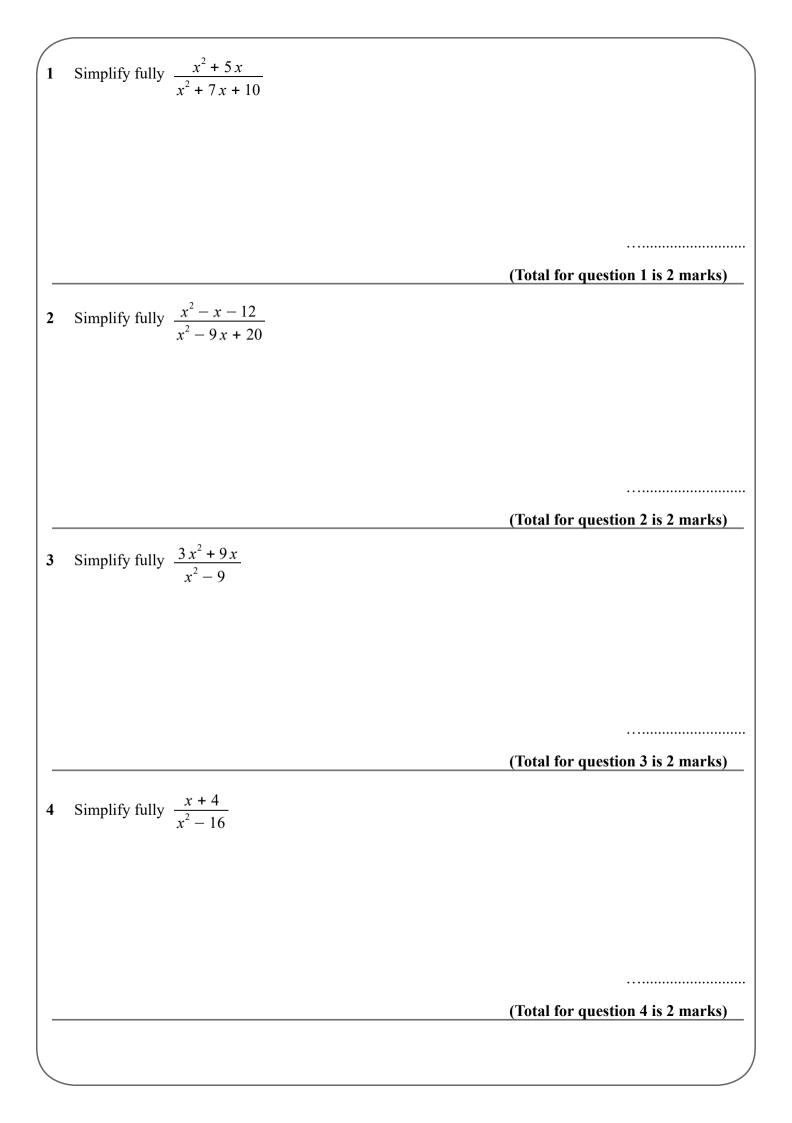
- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

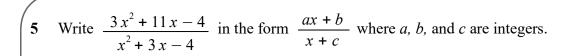
Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

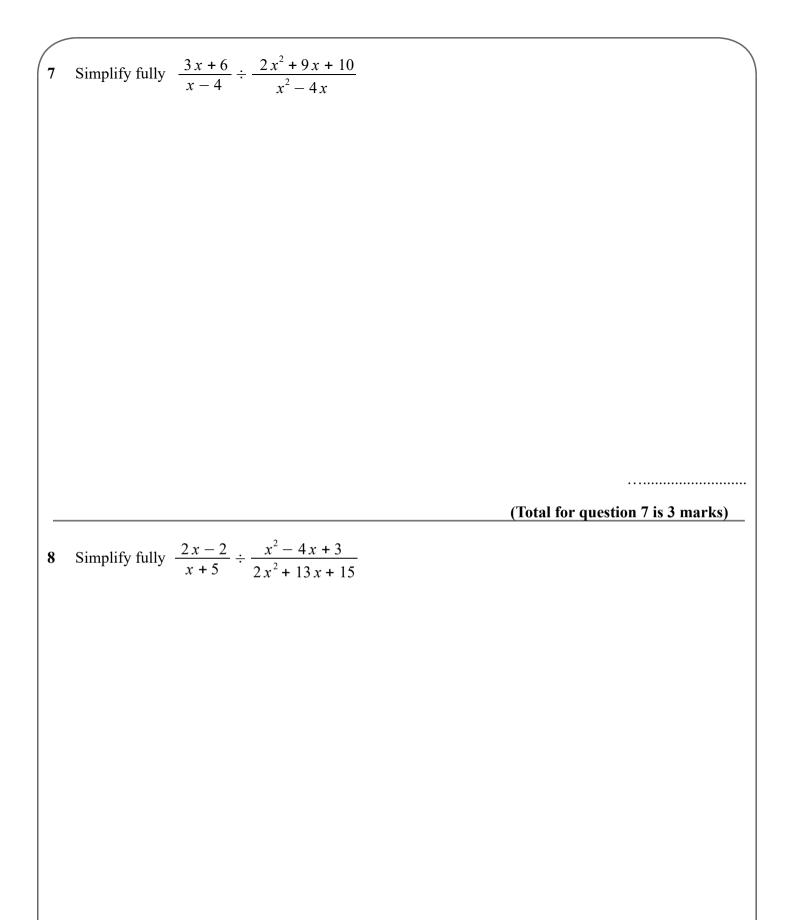




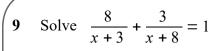
(Total for question 5 is 3 marks)

6 Write $\frac{x^2 + 7x - 18}{2x^2 - x - 6}$ in the form $\frac{x + a}{bx + c}$ where a, b, and c are integers.

(Total for question 6 is 3 marks)



(Total for question 8 is 3 marks)

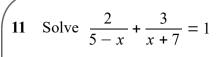


(Total for question 9 is 4 marks)

10 Solve
$$\frac{8}{3x-2} + \frac{6}{x+1} = 2$$

.....

(Total for question 10 is 4 marks)



(Total for question 11 is 4 marks)

12 Solve
$$\frac{7}{x+1} - \frac{4}{3x-2} = 1$$

(Total for question 12 is 4 marks)

13	Given that	2x+1: x+2 = x+8: 3x-4	4
	Find the possible values of	x.	
			(Total for question 13 is 4 marks)
14	Given that	x-1:2x-3 = x+2:3x-2	
	Find the possible values of	x.	
			(T) . 10
_			(Total for question 14 is 4 marks)

15	Given that	x+9:5x-1 = x+7:2x	; - 3	
	Find the possible values of x .			
			(Total for question 15 is 4 marks)	
16	Given that	5-3x:9-x=3x+7:4		
16	Given that Find the possible values of 2			
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(Total for question 16 is 4 marks)