Write your name here		
Surname	Other	names
n the style of: Pearson Edexcel GCSE	Centre Number	Candidate Number
Mathem	atics	
Quadratic	S	Higher Tier
GCSE style question	ns arranged by topic	Paper Reference 1MA0/2H
You must have: Ruler gra	duated in centimetres and n sses, pen, HB pencil, eraser, c	

## Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

## Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets
  use this as a guide as to how much time to spend on each question.

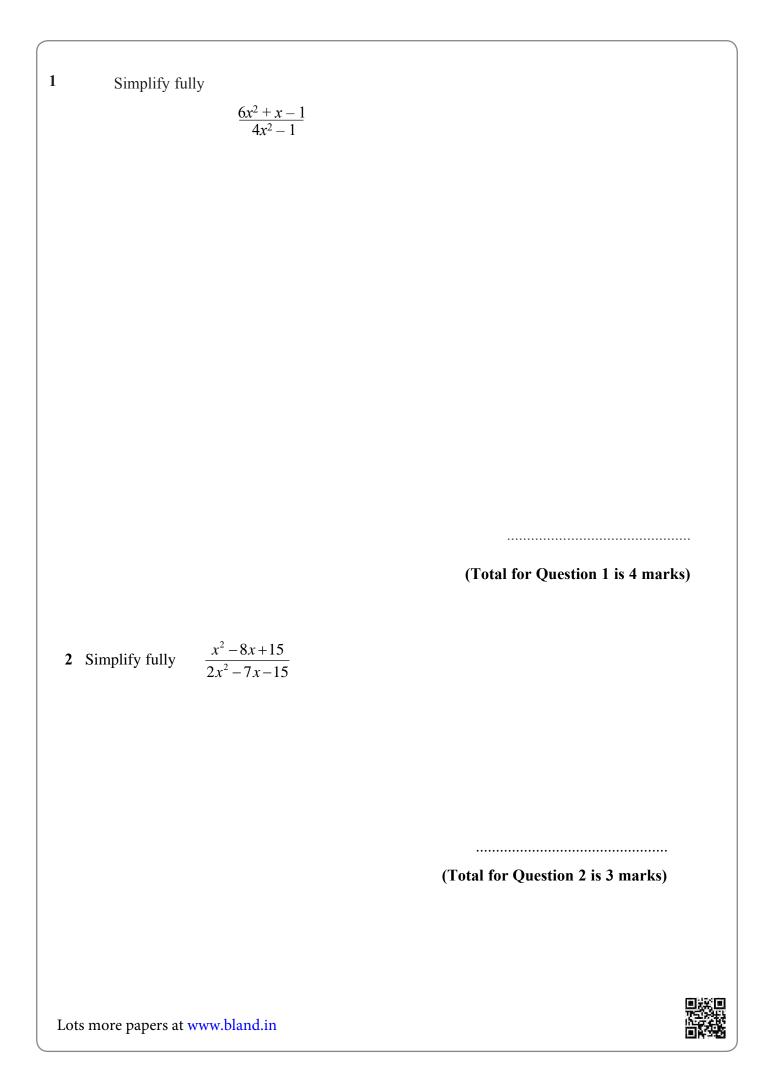
## Advice

- 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.









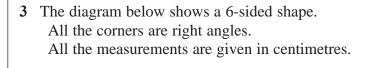
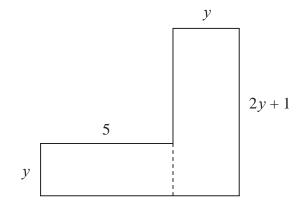


Diagram **NOT** accurately drawn



The area of the shape is  $95 \text{ cm}^2$ .

(a) Show that  $2y^2 + 6y - 95 = 0$ 

(3)

(b) Solve the equation

 $2y^2 + 6y - 95 = 0$ 

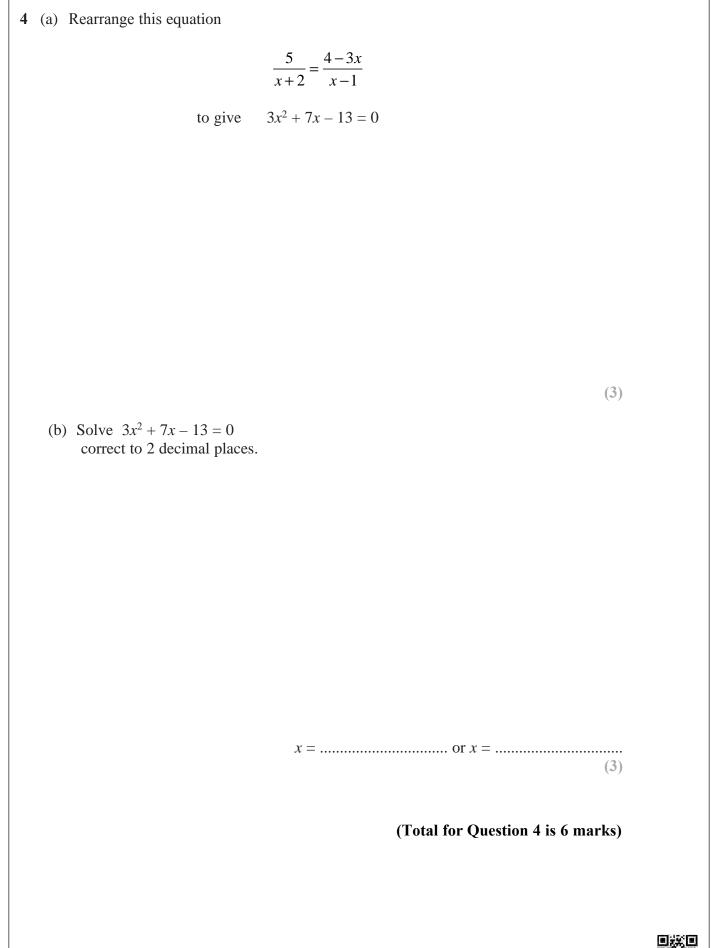
Give your solutions correct to 3 significant figures.

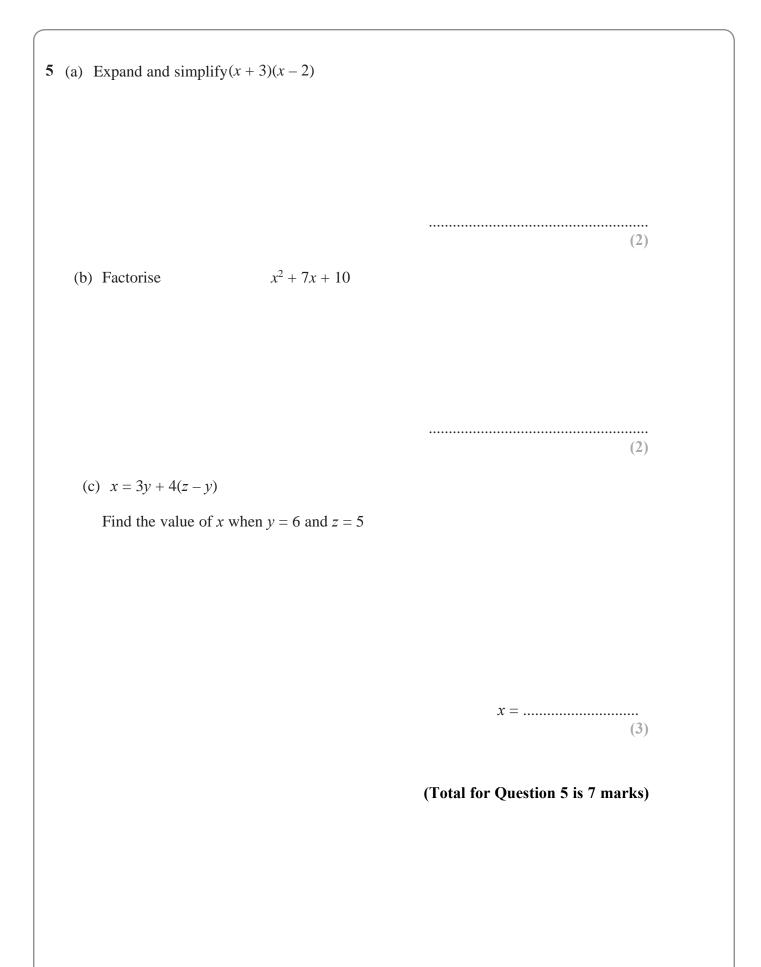
(3)

## (Total for Question 3 is 6 marks)

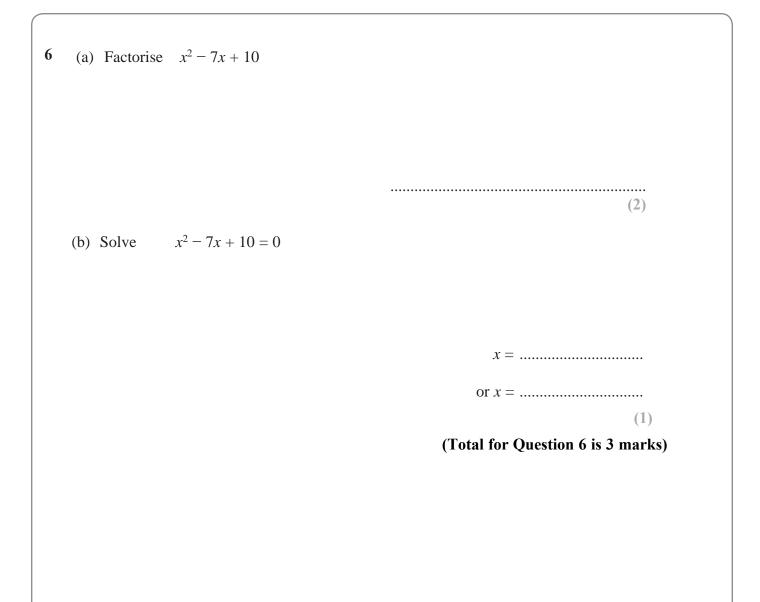
 $y = \dots$  or  $y = \dots$ 



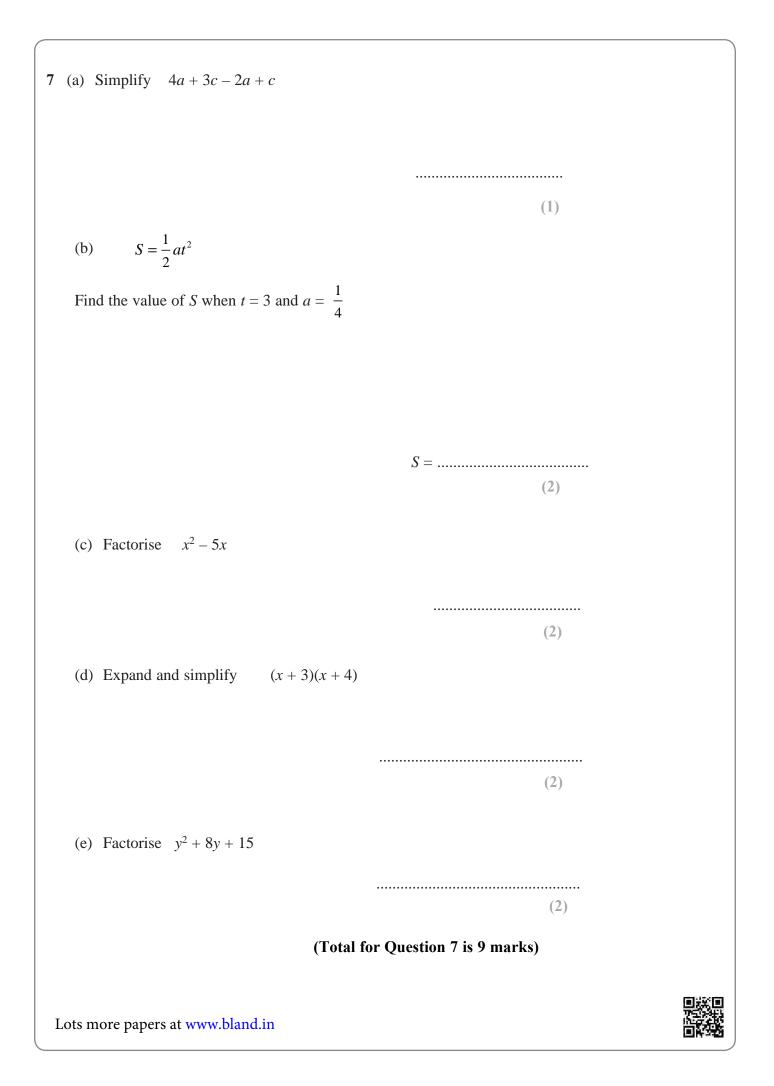


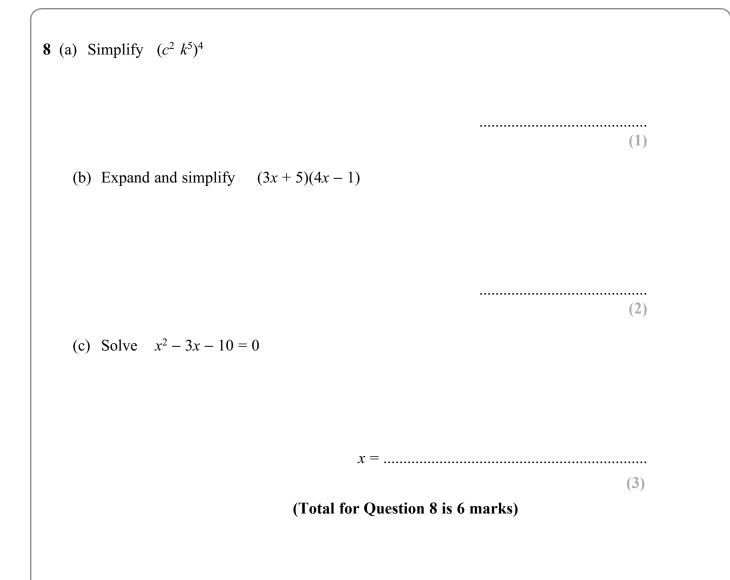




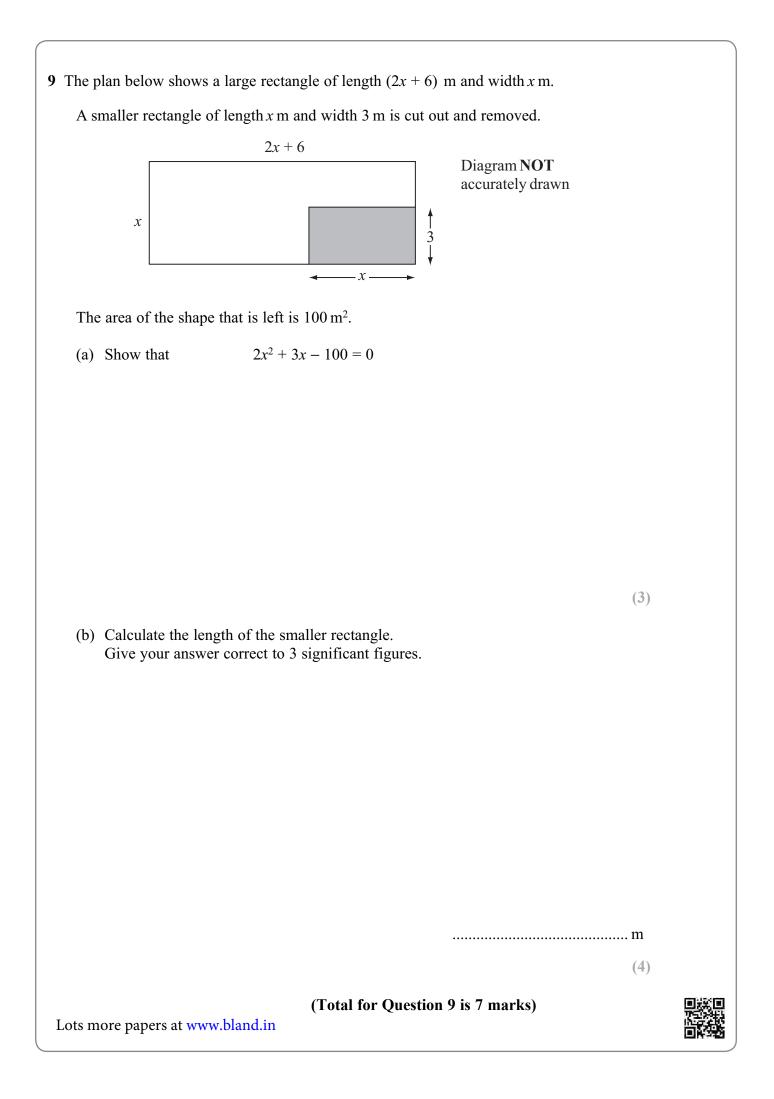












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