9	The point $A$ has coordinates $(-4, 3)$ and the point $B$ has coordinates $(6, 8)$ The points $A$ and $B$ lie on the line $k$	
	(a) Find an equation of $k$	(2)
	The point $C$ , on $k$ , is such that $AC : CB = 4:1$	
	(b) Find the coordinates of point <i>C</i>	(2)
	The point $D$ with coordinates $(p, q)$ , where $p < 0$ , lies on the line $l$ through $C$ that is perpendicular to $k$	
	The length of $CD$ is $8\sqrt{5}$	
	(c) Find the coordinates of <i>D</i>	(6)
	(d) Find the area of triangle <i>ACD</i>	(2)

$\times\!\!\times\!\!\times$
$\ggg$
$\times\!\!\times\!\!\times$
< Placeholder</td
NEED!
AREA
WRITEINTHIS
\ <b>\</b>
XI <del>V</del>
NOT
00
$\alpha$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$>\!\!>\!\!>$
$\times\!\!\times\!\!\times$
***
$\ggg$
AREA
X 800
CO.
$\bowtie \bowtie$
$\times$
XIII.
Œ
8 R
WRITE IN THIS
TWR
OTWR
101
101
101
101
101
DO NOT WRI
101
101
101
101
101
101
101
101
101
101
101
TONOO
A DO NOT
A DO NOT
REA DO NOT
REA DO NOT
AREA DO NOT
S AREA DO NOT
S AREA DO NOT
HIS AREA DO NOT
HIS AREA DO NOT
HIS AREA DO NOT
HIS AREA DO NOT
IN THIS AREA DO NOT
IN THIS AREA DO NOT
TE IN THIS AREA DO NOT
TE IN THIS AREA DO NOT
TE IN THIS AREA DO NOT
WRITE IN THIS AREA DO NOT
WRITE IN THIS AREA DO NOT
WRITE IN THIS AREA DO NOT
WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT
NOT WRITE IN THIS AREA DO NOT

Question 9 continued



DO NOT WRITE IN THIS AREA

Question 9 continued				

Question 9 continued				
	••••			
(Total for Question 9 is 12 marks)	—			

