4	The point A with coordinates (12,14) and the point B with coordinates $(q, 2)$ where $q$ is a constant, lie on the straight line with equation $3y-2x-p=0$ where $p$ is a constant.	
	(a) Find the value of $p$ and the value of $q$	(3)
	The line L is perpendicular to AB and passes through the point X, which lies on AB such that $AX: XB = 1:2$	
	(b) Find an equation for L in the form $ax + by + c = 0$ where a, b and c are integers to be found.	
	be found.	(6)

$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times\!\!\times$
$\!$
$\times\!\!\times\!\!\times$
( P. S.)
$\times$
WRITE IN THIS AREA
$\times$
NOT
$\times$
000
$\times$
$\times\!\!\times\!\!\times$
XXX
$\times\!\!\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times$
$\times\!\!\times\!\!\times\!\!\times$
<b>***</b>
$\times \times $
AREA
X X X X
$\times$ 8 $\times$
$\times$
CUM
X <del></del>
IN THIS
XXXX
X 🗮 🔾
S
S
WRITE
TWR
OT WR
OT WR
NOT WR
NOTWR
3 NOT WR
O NOT WR
DO NOT WR
DO NOT WR
DO NOT WR
DO NOT WR
DO NOT WR
DO NOT WR
DONOTWR
DO NOT WR
DO NOT WR
DØ NOT WR
DO NOT WR
DONOTWR
DØ NOT WR
DO NOT WR
DO NOT WR
DONOTWR
DONOTWR
DO NOT WR
TON OQ
TON OQ
TON OQ
LEA DO NOT
LEA DO NOT
LEA DO NOT
AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
S AREA DO NOT
RITE IN THIS AREA DO NOT
RITE IN THIS AREA DO NOT
RITE 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
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
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 4 continued			



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 4 continued	

Question 4 continued		
(Total for Question 4 is 9 marks)		

