M1.	<i>x</i> <sup>2</sup> + 6 or ( <i>x</i> – 3)	2 M	1
	$x^2 - 3x - 3x + 9$	) 4 terms with 3 correct M	1
	6 <i>x</i> < 3	oe linear inequality dep on two quadratic expressions ft their quadratic expressions M1de	р
	<i>x</i> < 0.5	Oe A	1
M2.	(a) x + y -	< 7	B1
	(b) $2y \ge x$	+ 4	B1

[2]

[4]

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**M3.**
$$2x^{2} + 3x - 1 = x + 4$$
  
 $2(y-4)^{2}+3(y-4) - 1=0$   
M1  
 $2x^{2} + 2x - 5 = 0$  or  $2x^{2} + 2x = 5$   
M1dep

$$2y^2 - 14y + 19 = 0$$
 or  $2y^2 - 14y = -19$ 

$$(x =) \frac{\frac{-2 \pm \sqrt{2^2 - 4(2)(-5)}}{2 \times 2}}{$$

M1dep

$$(x =) \frac{\frac{-2 \pm \sqrt{2^2 - 4(2)(-5)}}{2 \times 2}}{\frac{-2 \pm \sqrt{44}}{4}}$$

(x =) 1.16 and (y =) 5.16

(x =) -2.16 and (y =) 1.84

and

oe fully correct

A1

$$(x =)$$
 1.16 and -2.16  
 $(x =)$  1.16 and  $(y =)$  5.16  
or  
 $(x =)$  -2.16 and  $(y =)$  1.84

A1

A1

M4.All lines correct, drawn dashed / solid R marked



3 marks

R marked correct relative to two correct, drawn dashed / solid lines

3rd line incorrect or missing



2 marks

All lines correct, drawn dashed / solid



2 marks

R marked correct relative to one correct, dashed / solid line other lines incorrect or missing



1 mark

Two lines correct drawn dashed / solid



1 mark

All lines correct, drawn dashed / solid

No shading

R not marked



1 mark [10]