Question number	Scheme	Marks
2 (a)	$7+4x-x^2=11-(x-2)^2$	M1A1A1
	[a = 11, b = 1, c = -2]	[3]
	ALT	
	$7 + 4x - x^2 = a - b(x^2 + 2cx + c^2)$	{M1}
	$a-bc^2 = 7$ $b=1$ $bc = 4$ So $a = 11, b = 1, c = -2$	{A1}{A1}
	$7 + 4x - x^2 = 11 - (x - 2)^2$	[3]
(b)	(i) 11	B1ft
	(ii) 2	B1ft
	То	[2] tal 5 marks
(a)	10	tai 5 mai Ks
M1	An attempt to factorise to make $x^2$ positive e.g. $-(x \pm p)^2 \pm q$	
A1	Complete the square to obtain an expression in the form $-(x \pm 2)^2 \pm q$ <b>NB</b> Any	
A1	expression in this form will score M1A1 $11-(x-2)^2 \text{ or } a=11, b=1, c=-2$	
	$\begin{bmatrix} 11 - (x - 2) & \text{of } u - 11, b - 1, c2 \end{bmatrix}$	
ALT M1	Expands $a - b(x + c)$	
A1	Expands $a - b(x + c)$ $a - bc^2 = 7$ $b = 1$ $bc = 4$	
A1	$11-(x-2)^2$ or $a = 11, b = 1, c = -2$	
(b) (i)	Mark parts b(i) and b(ii) together	
B1ft (b) (ii)	11 follow through their a	
B1ft	2 follow through their c	
	<b>NB</b> Answer of Max = $(2, 11)$ score B1B1	