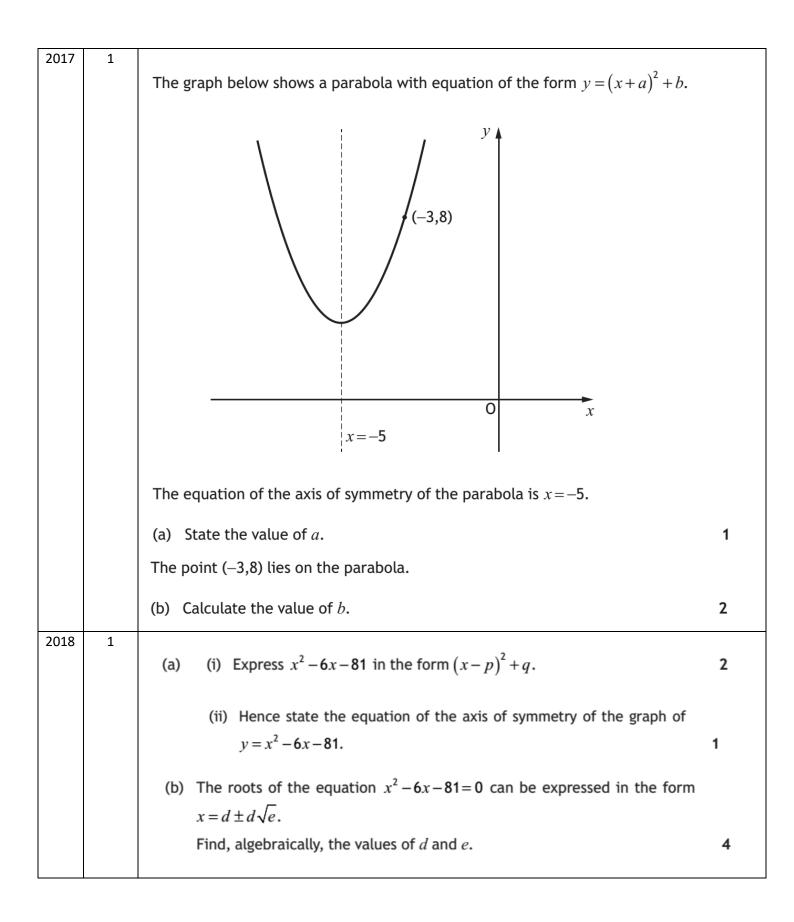
Completed Square Form				
YEAR	PAPER	QUESTION		
2014	1	Express $x^{2} - 14x + 44$ in the form $(x - a)^{2} + b$.	2	
2015	1	The graph below shows part of the parabola with equation of the form		
		$y = \left(x+a\right)^2 + b.$		
		(2, -4)		
		The minimum turning point (2, -4) is shown in the diagram.		
		(a) State the values of		
		(i) <i>a</i>	1	
		(ii) <i>b</i> .	1	
		(b) Write down the equation of the axis of symmetry of the graph.	1	
2016	1	Sketch the graph of $y = (x-3)^2 + 1$.		
		On your sketch, show clearly the coordinates of the turning point and the point of intersection with the <i>y</i> -axis.	3	
2016	2	Express $x^2 + 8x - 7$ in the form $(x + a)^2 + b$.	2	



2019	1		
		The graph shows a parabola.	
		The maximum turning point has coordinates (4,20) as shown in the diagram.	
		(a) Write down the equation of the axis of symmetry of the graph.	1
		The equation of the parabola is of the form $y = b - (x + a)^2$.	
		(b) State the values of	
		(i) <i>a</i>	1
		(ii) <i>b</i> .	1
2019	2	Express $x^2 + 10x - 15$ in the form $(x + p)^2 + q$.	2
2022	1	(a) Express $x^2 + 8x + 15$ in the form $(x + a)^2 + b$.	2
		(b) Hence, or otherwise, state the coordinates of the turning point of the graph of $f(x) = x^2 + 8x + 15$.	1