Q	Marking Instructions	AO	Marks	Typical Solution
6(a)	Uses either of the given coordinates in the given equation (accept product of the roots)	AO1.1a	M1	$k = 4(2+\sqrt{5}) - (2+\sqrt{5})^2 = -1$ <b>ALT</b> $k = 4(2-\sqrt{5}) - (2-\sqrt{5})^2 = -1$
	Obtains the correct value of k	AO1.1b	A1	ALT $k = (2 - \sqrt{5})(2 + \sqrt{5}) = -1$
6(b)	Sketches a graph with the correct shape	AO1.2	B1	2-√5
	Deduces correct relative positioning of intersections with axes (must see labels)	AO2.2a	B1	_1
	Deduces minimum lies to right of <i>y</i> -axis in fourth quadrant	AO2.2a	B1	
	Total		5	