Question			Answer	Marks	AO	Guidance	
1			$16 - 4(k + 3)$ $-4k - 12 + 16 > 0$ $4k - 4 < 0$ $k < 1$	**M1*** **A1** **M1dep*** **A1** **[4]**	**1.1** **2.3** **1.1** **1.1**	Attempt discriminant Obtain correct inequality Attempt to solve their inequality or equation for k Obtain $k < 1$	Allow $b^2 + 4ac$ for M1, but nothing else Not necessarily expanded **OR** (completing the square or differentiating) **M1*** – attempt to complete the square, or differentiate, and link minimum point to 0 **A1** – obtain $(k + 3) - 4 < 0$ **M1d*** – solve their inequality or equation **A1** – obtain $k < 1$ **OR** (using perfect square) **M1*** – link $k + 3$ to 4 **A1** – obtain $k + 3 < 4$ **M1d*** – solve their inequality or equation **A1** – obtain $k < 1$