3			**DR (**all parts)				
3	**(a)**	**(i)**	Show f(1) = 0	**B1** **[1]**	**1.1a**	Correct working and result seen	
3	**(a)**	**(ii)**	$(x-1)$ is a factor Attempt find other (quadratic) factor, by any method, but must be seen $(x-1)(2x^2+5x-3)$ $(x-1)(2x-1)(x+3)$ $x = 1$ or $\frac{1}{2}$ or -3	**B1** **M1** **A1f*** **A1** **[4]**	**2.2a** **1.1** **1.1** **2.2a**	stated or implied, eg by attempt ÷ by $(x-1)$ or show that f(–3) = 0 or f($\frac{1}{2}$) = 0 or $x = \frac{-5\pm\sqrt{25-4\times2\times(-3)}}{4}$ Dep A1* cao. SC correct answer no working: B1 only	or $(2x-1)$ or $(x+3)$ is factor Inspection: Must have $2x^2$ and ±3 oe ft their quad factor eg correct factors, no working B1 only
3	**(b)**		$\sin\theta = 1$ or $\sin\theta = \frac{1}{2}$ $\theta = 90°, 30^o, 150^o$ $\sin\theta = -3$ gives no solution, or it doesn't exist oe or outside range or impossible or not acceptable oe	**M1** **A3f** **B1** **[5]**	**3.2a** **3.1a** **1.1** **1.1** **2.3**	Use of a root from (a). May be implied Three correct, none incorrect: A3 Three correct and ≥ 1 incorrect: A2 Two correct: A2 One correct: A1 Statement needed. Ignore all else Not incorrect reason eg "no solutionn because minus": B0	ft their (a) for all A-marks **Ignore** any "correct" solutions outside range Just "X" or "Error"not enough because **DR**