Question			Answer	Marks	AO	Guidance
3	(a)		$f(3) = 3^3 - 3^2 - 5 \times 3 - 3 = 0$	**B1** [1]	**1.1**	Must see substitution; *or* factorise showing factor $(x - 3)$ No conclusion required beyond =0 (so e.g. accept long division leading to remainder 0).
3	(b)		$(x - 3)(px^2 + qx + r)$	**M1**	**3.1a**	Attempt quadratic factor by inspection or division. Look for $(x - 3)$ and a quadratic or two linear factors. NB this step may be seen in (a).
			$(x - 3)(x^2 + 2x + 1)$ $(x - 3)(x + 1)(x + 1)$	**A1** [2]	**1.1**	or $(x - 3)(x + 1)^2$
3	(c)		Fig 1.1: no value (of a) Fig 1.2: ($a =$) 2 Fig 1.3: ($a =$) 1	**B1** **B1** **B1** [3]	**2.2a** **2.2a** **2.2a**	Accept values between 1.9 and 2.1 Accept values between 0.9 and 1.1