Question	Answer	Marks	AOs		Guidance
1	**EITHER** $f(2) = 3\times 2^3 - 8\times 2^2 + 3\times 2 + 2 = 24 - 32 + 6 + 2 = 0$ Therefore by the factor theorem $(x-2)$ is a factor	**M1** **A1** **E1** **[3]**	**1.1a** **1.1b** **2.2a**	**AG** Function notation need not be used Zero must be seen Reason required	
	OR $f(x) = (x-2)(3x^2 - 2x - 1)$ No remainder so $(x-2)$ is a factor	**M1** **A1** **E1** **[3]**		Using algebraic division as far as $3x^2$ Correct quotient Reason required	