4	**(a)**		$3x^2 - 12x + 9 = 0$ $x = 3$ or 1 (3, 0) and (1, 4)	**M1** **A1** **A1f** **A1** **[4]**	**1.1a** **1.1** **1.1** **1.1**	Attempt differentiate & =0 May be implied Correct equation. May be implied by ans **BC** Allow When $x = 3$, $y = 0$; when $x = 1$, $y = 4$	$x(x-3)^2 = 0$ M1 tp at x =3 A1 ft their equation cao. Must be paired
4	**(b)**		Sketch (drawn in this part) of "+ve" cubic with two SPs, roughly correct shape, or just two TPs shown OR: f(1) = 0 and f(3) = 0, find k for each $k > 0$ or $k < -4$	**M1** **A1f** **[2]**	**3.1a** **2.2a**	Subst x=1 & x=3 into $y = x^3 - 6x^2 + 9x$ ft (a) ft their (a) Correct ans: M1A1	or identify $k = -4$ and 0. ft (a)