9			$y = mx + 2$ $mx + 2 = x^2 - x + 6$ $x^2 - (m + 1)x + 4 = 0$ Equal roots, hence $(m + 1)^2 - 16 = 0$ $m = -5$ inadmissible $m = 3$ Equation is $y = 3x + 2$	**M1** **M1** **A1** **M1** **B1** **A1**	seen or implied Attempt solve eqns of line and curve simultaneously Attempt use $b^2 - 4ac = 0$
			Alternative Method grad of tangent $= 2x - 1$ Where tgt touches curve $y = (2x-1)x + 2$ Hence $(2x - 1)x + 2 = x^2 - x + 6$ $x^2 = 4$ $x = -2$ gives gradient $= -5$, so reject $x = 2$ gives gradient $= 3$ Equation is $y = 3x + 2$	**M1** **M1** **M1** **A1** **B1** **A1**	Must be correct Allow M1 for just $y = (2x-1)x + 2$ oe
				[6]	