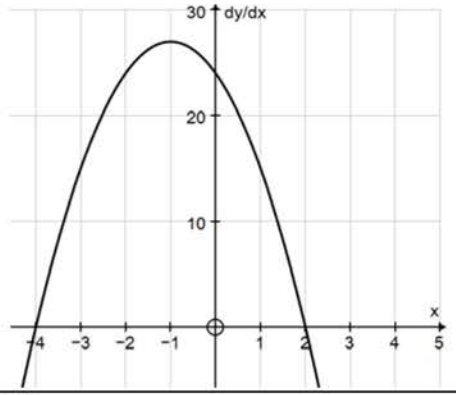
10	**(a)**		**DR** $\frac{dy}{dx} = 24 - 6x - 3x^2$ When $x = 0$, $\frac{dy}{dx} = 24$ When $\frac{dy}{dx} = 0$, $-3(x^2 + 2x - 8) = 0 \Rightarrow (x+4)(x-2) = 0$ $x = -4,\ 2$  	**M1** **A1** **M1** **A1** **B1** **[5]**	**1.1a** **1.1** **1.1a** **3.1a** **1.1**	Expression for derivative seen May be shown on graph or in the working Method for solving their quadratic equation (allow any algebraic method) Must be seen on graph Correct shape. Maximum point should be to the left of the y-axis but need not be exact.	
10	**(b)**		**DR** Decreasing function when $\frac{dy}{dx} < 0$ $\{x : x < -4\} \cup \{x : x > 2\}$	**M1** **A1** **[2]**	**1.1a** **2.5**	Attempt to give the values of x for which $\frac{dy}{dx} < 0$ from their graph FT their graph if quadratic Condone use of $\leq$ for M mark Allow for "$x < -4$ or $x > 2$" Must be correct use of language or set notation here.	Do not allow A1 for $x < -4,\ x > 2$ $x < -4$ **and** $x > 2$ $-4 > x > 2$