2	(a)	$\frac{dy}{dt} = 5x^4 - 20x^3 \text{ oe}$	M1	1.1a	For attempt at differentiation	Both indices decrease
		dx	Al	1.1		
		$d^2 y$ 2 2	A1FT	1.1	dy	
		$\frac{d^2 y}{dx^2} = 20x^3 - 60x^2$ oe			FT their $\frac{dx}{dx}$	
			[3]			
2	(b)	When $x = 4$, $\frac{dy}{dx} = 5x^4 - 20x^3 = 5 \times 4^4 - 20 \times 4^3$	M1	1.1	Substitute into their $\frac{dy}{dx}$	
		= 0 hence there is a stationary point	A1	2.1		
			[2]			
2	(c)	When $x = 4$,	M1	1.1		
		$\frac{d^2 y}{dx^2} = 20x^3 - 60x^2 = 20 \times 4^3 - 60 \times 4^2$				
		> 0 hence the stationary point is a minimum	E1FT	2.2a	FT from their $\frac{d^2 y}{dx^2}$ in part (i)	
			[2]			