1. Fig. 6 shows the curve with equation  $y = x^4 - 6x^2 + 4x + 5$ .



Find the coordinates of the points of inflection.

END OF QUESTION PAPER

[5]

Question		n	Answer/Indicative content	Marks	Guidance	
1			$\frac{\mathrm{d}y}{\mathrm{d}x} = 4x^3 - 12x + 4$	M1(AO1. 1)	Differentiating once	
			$\frac{d^2 y}{dx^2} = 12x^2 - 12 = 0$	A1(AO1. 1)	First derivative	
				M1(AO1. 2)	Differentiating a second time and equating to zero	
			$x = \pm 1$ (-1, -4) and (1, 4)	A1(AO1. 1)		
				A1(AO2. 1)		
				[5]		
			Total	5		