A curve has equation $y = 4x^2 + \frac{1}{x}$ .	
(a) Determine the coordinates of the stationary point on the curve.	[5]

<b>(b)</b> Use $\frac{d^2y}{dx^2}$ to determine whether this turning point is a maximum or a minimum.	[2
(b) Use $\frac{1}{dx^2}$ to determine whether this turning point is a maximum or a minimum.	

(c) Find the values of x for which the curve is increasing.