$f'(x) = (\frac{1}{2}x + k)^{-2} - (1 + k)^{-2},$			
who	ere k is a constant. The curve has a minimum point at $x = 2$.		
(a)	Find $f''(x)$ in terms of k and x , and hence find the set of possible values of k .	[3]	
		••••••	
		•••••	
T4 : .	$\frac{1}{2}$		
It is now given that $k = -3$ and the minimum point is at $(2, 3\frac{1}{2})$.			
(b)	Find $f(x)$.	[4]	
		•••••	
		••••••	
		•••••	

10 A curve has equation y = f(x) and it is given that

(c)	Find the coordinates of the other stationary point and determine its nature.	[4]
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		•••••

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