10	**(i)**	(*A*)	$16-\frac{2}{x^3}$ oe	**M1** **A1** **[2]**	**1.1** **1.1**	One term correct	
		(*B*)	kx^{-3-1} $6x^{-4}$ or $\frac{6}{x^4}$	**M1** **A1** **[2]**	**1.1** **1.1**	FT their $\frac{dy}{dx}$ for M1	
10	**(ii)**		their $\frac{dy}{dx}=0$ $x = ½$ $y = 12$ substitution of their $x = ½$ in their second derivative [96] which is positive so (½, 12) is a minimum	**M1** **A1** **A1** **M1** **A1** **[5]**	**2.1** **1.1** **1.1** **1.1** **2.4**	FT their *x;* dependent on (i)(B) involving *x* www	