Question 9

i) $(2, 10)$ stat value

$\dfrac{dy}{dx} = 0$ when $x = 2$; $f'(2) = 0$

$x = 2$ & $y = 10$; $f(2) = 10$

$f''(x) = \dfrac{12}{x^3} = 12x^{-3}$

$\dfrac{1}{3}$

$f'(x) = \int f''(x)\, dx = \dfrac{12 x^{-2}}{-2} + k = -\dfrac{6}{x^2} + k$

$f'(2) = -\dfrac{6}{2^2} + k = -\dfrac{3}{2} + k = 0 \rightarrow k = \dfrac{3}{2} = 1.5$

$\dots \cdot 7$

$f'(x) = -6x^{-2} + 1.5$

$f(x) = \int f'(x)\, dx = \dfrac{-6x^{-1}}{-1} + 1.5x + c = \dfrac{6}{x} + \dfrac{3}{2}x + c$

$f(2) = 10 \rightarrow 10 = \dfrac{6}{2} + \dfrac{3}{2} \times 2 + c \rightarrow 10 = 3 + 3 + c \rightarrow c = 4$

$f(x) = \dfrac{6}{x} + \dfrac{3}{2}x + 4$

ii) stat value $f'(x) = 0$

$-\dfrac{6}{x^2} + 1.5 = 0 \rightarrow \dfrac{6}{x^2} = 1.5 \rightarrow \dfrac{6}{1.5} = x^2 \rightarrow x^2 = 4$

$x = \pm 2 \rightarrow y_1 = 10$, $y_2 = -2$

$\therefore (-2, -2)$

iii) when $x = -2$ & $f''(x) = \dfrac{12}{(-2)^3} < 0$ $\quad (-2, -2)_{max}$

$x = 2$ $\qquad f''(x) = \dfrac{12}{2^3} > 0$ $\quad (2, 10)$ min

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