$$\frac{2}{3} \sum_{x = \ln(x-1)} \frac{1}{4x}$$

$$f'(x) = x$$
, $g(x) = (x-1)$

$$f(x)=\frac{x^2}{x}$$
, $g'(x)=\frac{L}{x-L}$

$$3 \times h(x+1) dx = \begin{bmatrix} x^{2} & h(x+1)^{2} - \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & h(x+1)^{2} - \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

$$= \frac{1}{2} \cdot \frac{x^{2}}{x^{-1}} = \frac{1}{2} \cdot \frac{x^{2} - x + x}{x^{-1}} = \frac{1}{2} \cdot \frac{x}{x^{-1}} = \frac{1}{2} \cdot \frac{x}{x^{-1}}$$

$$= \frac{1}{2} \left(\frac{1}{3} \times + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \left[\frac{1}{3} \right] \right) = \frac{1}{2} \left(\frac{1}{3} + \frac{1}{3} \left[\frac{1}{3} \right] + \frac{1}{2} \left[\frac{1}{3} \right]$$

$$=\frac{1}{2}\left(2-\frac{1}{2}+4-1+\ln 1-\lim_{\alpha\to 1}\left(\ln |\alpha+1|\right)\right)=\frac{3}{4}-\frac{1}{2}\lim_{\alpha\to 1}\left(\ln |\alpha+1|\right)$$

$$\Rightarrow \Rightarrow \begin{bmatrix} x^{2}, \ln (x-1) \end{bmatrix}_{1}^{2} = \begin{bmatrix} 2-0 - \frac{1}{2}, \frac{\lim_{n \to 1}^{\infty} \ln (n-1)}{n} \end{bmatrix}$$