

**Subject - Math AA(Standard Level)**  
**Topic - Calculus**  
**Year - May 2021 - Nov 2022**  
**Paper -1**  
**Questions**

**Question 1**

[Maximum mark: 16]

Let  $f(x) = \frac{\ln 5x}{kx}$  where  $x > 0$ ,  $k \in \mathbb{R}^+$ .

- (a) Show that  $f'(x) = \frac{1 - \ln 5x}{kx^2}$ . [3]

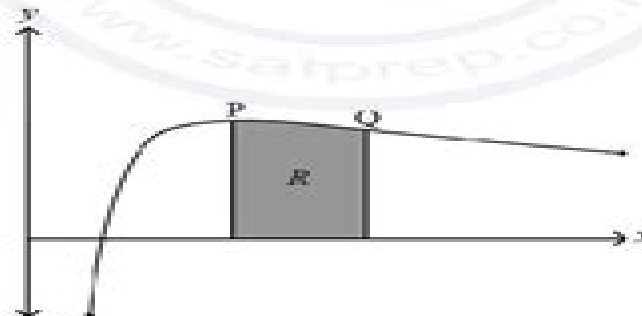
The graph of  $f$  has exactly one maximum point  $P$ .

- (b) Find the  $x$ -coordinate of  $P$ . [3]

The second derivative of  $f$  is given by  $f''(x) = \frac{2 \ln 5x - 3}{kx^3}$ . The graph of  $f$  has exactly one point of inflexion  $Q$ .

- (c) Show that the  $x$ -coordinate of  $Q$  is  $\frac{1}{5}e^{\frac{3}{2}}$ . [3]

The region  $R$  is enclosed by the graph of  $f$ , the  $x$ -axis, and the vertical lines through the maximum point  $P$  and the point of inflexion  $Q$ .



- (d) Given that the area of  $R$  is 3, find the value of  $k$ . [7]

# Math Sl 2013 Paper Tz1

**WJ Hussar**



**Math SI 2013 Paper Tz1:**

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