

Subject – Math (Standard Level)
Topic – Calculus
Year – Nov 2011 – Nov 2019
Paper -1

Question 1

[Maximum mark: 6]

Let $f'(x) = 3x^2 + 2$. Given that $f(2) = 5$, find $f(x)$.

Question 2

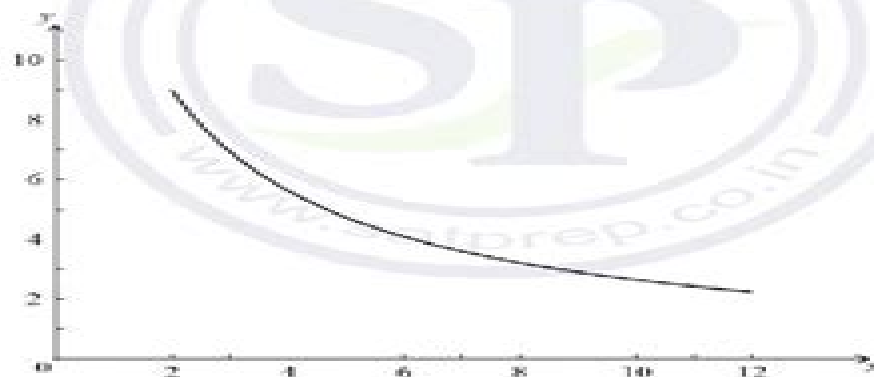
[Maximum mark: 13]

Let $f(x) = \frac{1}{4}x^2 + 2$. The line L is the tangent to the curve of f at $(4, 6)$.

(a) Find the equation of L .

[4 marks]

Let $g(x) = \frac{90}{3x+4}$, for $2 \leq x \leq 12$. The following diagram shows the graph of g .



(b) Find the area of the region enclosed by the curve of g , the x -axis, and the lines $x = 2$ and $x = 12$. Give your answer in the form $a \ln b$, where $a, b \in \mathbb{Z}$.

[6 marks]

(c) The graph of g is reflected in the x -axis to give the graph of h . The area of the region enclosed by the lines L , $x = 2$, $x = 12$ and the x -axis is 120 cm^2 .

Find the area enclosed by the lines L , $x = 2$, $x = 12$ and the graph of h .

[3 marks]

2013 Tz2 Math Sl Paper 1

Didier Musso



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