

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

Question 1

evidence of anti-differentiation

(M1)

e.g. $\int f'(x)$, $\int (3x^2 + 2) dx$

$f(x) = x^3 + 2x + c$ (seen anywhere, including the answer)

ATAT

Attempt to substitute (2, 5)

(M1)

e.g. $f(2) = (2)^3 + 2(2)$, $5 = 8 + 4 + c$

finding the value of c

(A1)

e.g. $5 = 12 + c$, $c = -7$

$f(x) = x^3 + 2x - 7$

AT

NS
 [6 marks]

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