AQA – Integration – A2 Mathematics P3

1. June/2020/Paper_3/No.1

    Given that

    $$\int_0^{10} f(x)\,dx = 7$$

    deduce the value of

    $$\int_0^{10} \left(f(x) + 1 \right) dx$$

    Circle your answer.

    [1 mark]

    -3 7   8   17

2. June/2019/Paper_3/No.7

    (a)   Express $\dfrac{4x+3}{(x-1)^2}$ in the form $\dfrac{A}{x-1} + \dfrac{B}{(x-1)^2}$

    [3 marks]

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(b) Show that

$$\int_3^4 \frac{4x+3}{(x-1)^2}\, dx = p + \ln q$$

where p and q are rational numbers.

[5 marks]

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